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*with the Authors' Compliments*

# A CATALOGUE

OF THE

# FERNS INDIGENOUS TO CEYLON

According to the Nomenclature of the 'Synopsis Filicum' of Hooker & Baker.

WITH NOTES, BY G. W.

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## P R E F A C E.

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SINCE the publication of Dr. Thwaites' 'Enumeratio,' several species, not previously discovered in Ceylon, have been added to the list of indigenous Ferns; and of those specified therein the names of several have been revised in the 'Synopsis Filicum,' the latest of Sir W. Hooker's works, the nomenclature of which is adopted in the herbarium at Kew. A complete list, comprising all the species hitherto discovered, according to the nomenclature in use at the great National Herbarium, seemed therefore desirable. The present little work is intended to supply this desideratum. It is further adapted to the use and convenience of the Ceylon botanist by notes and remarks on such of the species as present features of particular interest.

The habitats are nearly all given from the writer's own actual experience, and are therefore in many instances different from those mentioned in Dr. Thwaites' 'Enumeratio.' These were no doubt perfectly accurate at the time they were written, but it is probable the coffee-planter's axe has cleared away all traces of some of those old habitats, and other additional ones have been discovered. For the information contained in the Notes the writer is indebted to the Director of the Kew Royal Gardens for the access kindly afforded him to the copious suites of specimens there classified, and especially to Mr. Baker's kind and ready assistance in his references to the Herbarium. The writer feels that any acknowledgment of these favours would be incomplete if it did not comprise a record of the results for the use of other inquirers who may not be able to avail themselves of the advantages so generously afforded to him.





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## LIST OF THE GENERA OF FERNS.

1 <i>Platyzoma</i>	26 <i>Casscheera</i>	52 <i>Gymnogramme</i>
2 <i>Gleichenia</i>	27 <i>Onychium</i>	53 <i>Brainea</i>
3 <i>Thyrsopteris</i>	28 <i>Llavea</i>	54 <i>Meniscium</i>
4 <i>Cyathea</i>	29 <i>Cryptogramme</i>	55 <i>Antrophyum</i>
5 <i>Hemitelia</i>	30 <i>Pellœa</i>	56 <i>Vittaria</i>
6 <i>Alsophila</i>	31 <i>Pteris</i>	57 <i>Tænitis</i>
7 <i>Diacalpe</i>	32 <i>Ceratopteris</i>	58 <i>Deymoglossum</i>
8 <i>Matonia</i>	33 <i>Lomaria</i>	52 <i>Hemionitis</i>
9 <i>Onoclea</i>	34 <i>Blechnum</i>	60 <i>Acrostichum</i>
10 <i>Hypoderris</i>	35 <i>Sadleria</i>	61 <i>Platycerium</i>
11 <i>Woodsia</i>	36 <i>Woodwardia</i>	62 <i>Osmunda</i>
12 <i>Sphæropteris</i>	37 <i>Doodia</i>	63 <i>Todea</i>
13 <i>Dicksonia</i>	38 <i>Asplenium</i>	64 <i>Schizæa</i>
14 <i>Deparia</i>	39 <i>Actiniopteris</i>	65 <i>Anemia</i>
15 <i>Loxsona</i>	40 <i>Allantodia</i>	66 <i>Mohria</i>
16 <i>Hymenophyllum</i>	41 <i>Scolopendrium</i>	67 <i>Trochopteris</i>
17 <i>Trichomanes</i>	42 <i>Didymochlæna</i>	68 <i>Lygodium</i>
18 <i>Davallia</i>	43 <i>Aspidium</i>	69 <i>Angiopteris</i>
19 <i>Cystopteris</i>	44 <i>Nephrodium</i>	70 <i>Marattia</i>
20 <i>Lindsaya</i>	45 <i>Nephrolepis</i>	71 <i>Danæa</i>
20* <i>Dictyoxiphium</i>	46 <i>Oleandra</i>	72 <i>Kaulfussia</i>
21 <i>Adiantum</i>	47 <i>Fadyenia</i>	73 <i>Ophioglossum</i>
22 <i>Ochropteris</i>	48 <i>Polypodium</i>	74 <i>Helminthostachys</i>
23 <i>Lonchitis</i>	49 <i>Jamcsonia</i>	75 <i>Botrychium</i>
24 <i>Hypolepis</i>	50 <i>Nothochlæna</i>	
25 <i>Cheilanthes</i>	51 <i>Monogramme</i>	

Those in *Italics* are not represented in Ceylon.

# FERNS INDIGENOUS IN CEYLON.

NOTE.—The numbers in the first column of references to Hooker & Baker's 'Synopsis Filicum' are those of the species, not of the pages. The numbers in the first column of references to Dr. Thwaites' 'Enumeratio' refer to the pages of that work. Those in the second column are the Ceylon Herbarium, or C. P. numbers. The letters B & S, in the first column of references to Major Beddome's works, distinguish between his 'Ferns of British India' and his 'Ferns of Southern India'; and the numbers in the second column refer to the Plates of those works. The word "Idem," in the second, third and fourth columns, signifies that the species is there described by the same name as that in the first column; otherwise the synonym under which it is described is specified.

## SUB-ORDER 1. GLEICHENIACEÆ. GENUS 2. GLEICHENIA.

Hooker & Baker's Synopsis Filicum.		Hooker's Species Filicum.		Thwaites' Enumeratio.		Beddome's Ferns of British & Southern India.		HABITAT, ETC.
NO.	SPECIES.	VOL.	PAGE.	SPECIES.	PAGE.	VOL.	PLATE.	
23	G. (MERTENSIA) DICHOTOMA Willd.	1	12	G. Hermannii, Br.	379	Idem - C. P.	3106	Extremely abundant at all elevations. Scrambles over small shrubs in the open.
		1	11	G. Rufinervis, Mart.				
		1	13	G. Klotschii, Hk.				
		1	10	G. Ferruginea, Bl.				

## SUB-ORDER 2. POLYPODIACEÆ. GENUS 4. CYATHEA.

1	C. SINUATA - - Hk. & Gr.	1	15	Idem	396	Idem - - -	3052	S	259	Idem	Small tree-fern, 3 to 5 ft. high. Forests of the Southern Province.
3	C. HOOKERI - - Thwaites.				396	Idem - - -	3722				Small tree-fern, 5 to 7 ft. high. Forests of the Southern Province.

## GENUS 5. HEMITELIA.

16	H. (AMPHICOSMIA) WALKERÆ Hook.	1	24	Cyathea Walkeræ	396	Cyathea Walkeræ	3053	S	261	Cyathea Walkeræ	Large tree-fern, 10 to 20 ft. high. Abundant in the forests of the Central Province, 3000 to 6000 ft.
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## GENUS 6. ALSOPHILA.

52	A. CRINITA - - Hook.	1	54	Idem	396	Idem - - -	1401	S	59	Idem	Large tree-fern, 10 to 20 ft. high. Abundant in the forests of the Central Province, 4500 to 6000 ft.
58	A. GLABRA - - - Blume.	1	51	Idem	396	A. Gigantea, Wall.	1403	S	60	Idem	Large-fronded tree of low stature. Not common in forests of the Central Province, at 3000 to 5000 ft.
		1	53	A. Gigantea, Wall.							

## GENUS 7. DIACALPE.

1	D. ASPIDIODES - - Blume.	1	59	Idem	396	Idem - - -	3282	S	257	Idem	Scarce at Blackpool, Newera Ellia. Abundant at Kooromda Oya, Matturatto. Terraneous. Dies off during the N.E. monsoon.
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## GENUS 13. DICKSONIA.

27	D. SCABRA - - - Wall.	1	80	Idem	389	D. Deltoidea, Hk.	1397	S	258	Dennstedtia Deltoidea, Moore	Abundant at elevations above 5000 ft. in the Central Province. Terraneous.
		1	80	D. Deltoidea, t. 27							

## GENUS 16. HYMENOPHYLLUM.

8	H. EMERSUM - - - Baker			New species		Addenda -	3360	S	267	H. Polyanthos, Str. [See Appendix]	On trees in the forests of the Southern Province, 2000 to 4000 ft.
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Hooker & Baker's <i>Synopsis Filicum.</i>			Hooker's <i>Species Filicum.</i>			Thwaites' <i>Enumeratio.</i>			Beddome's <i>Ferns of British &amp; Southern India.</i>			HABITAT, ETC.	
NO.	SPECIES.		VOL.	PAGE	SPECIES.	PAGE	SPECIES.	VOL.	PLATE	SPECIES.			
116	H. EXSERTUM	- - Wall.	1	109	Idem - -	pl. 38	397	Idem - -	1390	S	9	Idem	On wet rocks in the forests of the Central Province, 2000 to 5000 ft. Common.
18	H. POLYANTHOS	- - - Sw.	1	106	Idem		397	Idem	3279, 3360	B	280	Idem	The typical form is rare. I have found it only at Rambodde, 4000 to 5000 ft., on trees and rocks in the forest. <i>Var.</i> Blumeanum is common on the Peacock, at Matala, and in the forests of the Southern Province, where it attains a very large size on wet rocks. Dies off during N.E. monsoon.
				104	H. Protrusum, Hk.	pl. 37	397	H. Blumeanum, Spr.	1391	S	266	H. Blumeanum, Spr.	
21	H. JAVANICUM	- - - Spr.	1	106	Idem		397	H. Crispatum, Wall.	1394, 1395	S	207	H. Crispatum, Wall.	Abundant on rocks and trees in the forests of the Central and Southern Provinces, above 2500 ft.
			1	105	H. Crispatum, Wall.								
			1	102	H. Fimbriatum, J. Sm.	pl. 36							
			1	105	H. Flexuosum, A. C.								
70	H. NEESII	- - - Hook.	1	99	Idem		397	H. Tunbridgense, Smith	2985	B	279	H. Neesii, Hk.	Common on rocks and trees in the forests of the Central and Southern Provinces, above 3000 ft.
										S	265	H. Tunbridg., Smith	

GENUS 17. TRICHOMANES.

10	T. MOTLEYI	- - - V. & B.	1		New species	3972	Addenda	- 3972	B	183	T. Henzaiense, Hk.	Not uncommon on trees in the forests of the Southern Provinces, 2000 to 3000 ft.
14*	T. EXIGUUM	- - - Bedd.			New species		Addenda	- 3957	B	275	Hym. Exiguum, Bedd.	On rocks and trees in the forests of Telgama, also in Southern Province, 2000 to 4000 ft.
20	T. MUSCOIDES	- - - Sw.	1	117	Idem		Idem	- - 2986	S	6	T. Nalgherriense, Bkl.	Common on rocks in the forests of the Central and Southern Provinces, about 4000 ft.
									B	304	T. Muscooides, Sw.	
21	T. PARVULUM	- - - Poir.	1	118	Idem	pl. 39	Addenda	- 3991	B	179	Idem	Not uncommon on rocks in the forests of the Southern Province, about 3000 ft.
24	T. PROLIFERUM	- - - Bl.	1	118	Idem	pl. 39	Idem	- - 3329	S	262	Idem	On rocks and trees in the forests about Hewissa; also at Ambagama, Thw.
27	T. DIGITATUM	- - - Sw.	1	119	Idem		Hym. Corticola, Hk.	3278	S	264	Trich. Corticola, Hk.	On trees in the forests of the Southern Provinces, 3000 to 4000 ft.
42	T. INTRAMARGINALE	Hk. & Gr.	1	120	Idem		Idem	- - 3361	S	208	Idem	Ambagama district, Thw.
46	T. PALLIDUM	- - - Bl.	1	139	Idem	pl. 40	T. Glaucofusum, Hk.	3330	S	263	T. Glaucofusum, Hk.	On trees in the forests of the Southern Province, 3000 to 4000 ft.
			1	128	T. Glaucofusum,							
			1	129	T. Album, Bl.	[Hk.]						
48	T. FILICULA	- - - Bory	1	124	Idem		Idem	- - 2985	B	283	Idem	Common on rocks and trees in the forests of the Central and Southern Provinces, above 2000 ft.
49	T. PYXIDIFERUM	- - - L.	1	124	Idem		Included with T. Proliferum		S	7	T. Filicula [See Appendix]	Top of Telgama Pass, Kalibokka; and in forests of the Southern Province; on wet rocks.
70	T. RIGIDUM	- - - Sw.	1	133	Idem		Idem	- - 1396	S	8	Idem	Common in the forests of the Central and Southern Provinces, above 4000 ft.

GENUS 18. DAVALLIA.

6	D. (HUMATA) PEDATA	J. Sm.	1	154	Idem	pl. 45	Idem	- - 1383	S	12	Humata Pedata, J. Sm.	Common on rocks and trees in the forests of the Central and Southern Provinces, above 1500 ft.
7	D. ( " ) VESTITA	- Bl.	1	156	Idem	pl. 41	Idem	- - 3068	S	253	Humata Vestita, Bl.	Ambawella Forest, below Hackgalla, about 5000 ft., on trees.

20	D. (LEUCOSTEGIA) PULCHRA <i>Don</i>	1 1	160 157	Idem D. Chaerophylla, <i>Wall.</i> pl. 51	388	Idem - - - 3288	S	10	Acrophorus Pulcher, <i>Don</i>	In the Hunasgiri, Wattakelly and Etangwella forests, 3000 to 5000 ft., on rocks.
22	D. ( " ) AFFINIS <i>Hk.</i>	1	158	Idem - - - pl. 52	389	Idem - - - 1384	S	252	Acrophorus Affinis, <i>Moore</i>	On rocks and trees in the forests of the Central and Southern Provinces. Common about 3000 to 4000 ft.
24	D. ( " ) TRICHOMANOIDES <i>Hk.</i>			New species		Addenda - 3903	B	178	Idem	On Abbey Rocks, Moorooa Corle, 5000 ft.
27	D. (ODONTOLOMA) REPENS <i>Desv.</i>	1	175 176	D. Boryana, <i>Pr.</i> D. Hemiptera, <i>Bory</i>	388	Lindsea Repens, <i>Thuc.</i> 3389 <i>var. Minor</i> - 1389	S	209 214	Lindsea Repens, <i>Thuc.</i> <i>var. Minor</i>	Singhe Raja forest, <i>Thuc.</i> Matale, <i>Gardner.</i>
31	D. (PROSAPTIA) EMERSONI <i>Hk. &amp; Gr.</i>	1	161	Idem	389	Idem - - - 1385	S	20	Idem	On rocks and trees in the forests of the Southern Province, 2000 to 4000 ft.
32	D. ( " ) CONTIGUA <i>Sw.</i>	1 1	161 161	Idem D. Preslii	389	Idem - - - 3069	S	19	Idem	Common on rocks and trees in the forests of the Central Province, above 5000 ft.
40	D. ELEGANS - - - <i>Sw.</i>	1 1 1	164 166 168	Idem. D. Elata, <i>Sw.</i> pl. 55 D. Vogelii, <i>Hk.</i> pl. 59	389	Idem - - - 3078	S	18	Idem	On rocks, Vicarton and East Matale, at 2000 to 3000 ft.
47	D. BULLATA - - - <i>Wall.</i>	1	169	Idem - - - pl. 50		Addenda - 3927	S	17	Idem	On trees at Dooromadella and Matale West, 2000 to 3000 ft.
57	D. (MICROLEPIA) STRIGOSA <i>Sw.</i>	1	173 181	D. Khasiyana pl. 47 & D. Polypodioides [57]	389	Idem - - - 1386	S	255	Microlepiea Strigosa, <i>Moore</i>	Terraneous. Common in forests of the Central Province, 2000 to 4000 ft.
58	D. ( " ) PLATYPHYLLA <i>Don</i>	1	173	D. Lonchitidea, <i>Wall.</i> pl. 46	389	Idem - - - 3277	S	13	Micro. Platyphylla, <i>Moore</i>	Rangboddie, in forest, 3500 ft., growing with D. Majuscula. Terraneous. 8 to 12 ft. high. Rare. Probably dies off part of the year.
60	D. ( " ) MAJUSCULA <i>Loise</i>			New species	438	D. Proxima, <i>Bl.</i> 3827	S	254	Micro. Proxima, <i>Bl.</i>	Rangboddie, with D. Platyphylla. Rare. Probably dies off during part of the year.
64	D. ( " ) HIRTA <i>Kf.</i>	1	181	Idem	389	Idem - - - 3272	S	256	Microlepiea Hirta, <i>Kunlf</i>	Terraneous. In forests of Oodapusselawa and Telgama, 4000 ft.
65	D. ( " ) SPELUNCÆ <i>Baker</i>	1 1 1	181 183 183	D. Polypodioid., <i>Don</i> D. Jamaicensis, <i>Hk.</i> D. Trichosticha, <i>Hk.</i>	389	D. Polypodioides, <i>Don</i> 1387-8	S	15	Micro. Polypodioides <i>Presl</i>	Common at all elevations below 3000 ft., on shady banks in Central, Western and Southern Provinces. In hedges at Kelani.
74	D. (STENOLOMA) TENUIFOLIA <i>Sw.</i>	1 1	186 187	Idem D. Chinensis, <i>Sw.</i>	389	Idem - - - 983	S	16	Idem	Abundant on moist banks above 3000 ft., in the Central Province.

GENUS 20. LINDSAYA.

7	L. CULTRATA - - - <i>Sw.</i>	1 1	203 205	Idem L. Lobbiana, <i>Hk.</i> pl. 62	388	Idem - - - 3070	S B	23 28	Idem L. Lobbiana, <i>Hook.</i>	Common on rocks and moist banks about Newera Ellia, and at high elevations in the forests of the Central Province. Delicious perfume when drying.
16	L. FLABELLULATA - - - <i>Dry.</i>	1 1	211 211	Idem - - - pl. 63 L. Tenera, <i>Dry.</i>	388 388	Idem - - - 3311 L. Tenera, <i>Dry.</i> 1381	S S	216 24	Idem L. Tenera, <i>Dry.</i>	Not uncommon in the forests of the Central and Southern Provinces. Terraneous.
17	L. TRAPEZIFORMIS - - - <i>Dry.</i>	1	214	Idem [ <i>Radii</i> L. Quadrangularis, L. Horizontalis, <i>Hk.</i> L. Arcuata, <i>Loise</i> L. Caudata, <i>Hk.</i> L. Leprieurii, <i>Hk.</i> pl. 62	388	L. Caudata, <i>Hk.</i> 1380	S	217	L. Caudata, <i>Hk.</i>	Very abundant in some forests of the Southern Province; also on the Peacock. Terraneous.
28	L. (ISOLOMA) WALKERÆ <i>Hk.</i>	1	209	Idem - - - pl. 69	388	Idem - - - 1379	S	215	Idem	In swamps in the Himidoon Corle.

Hooker & Baker's <i>Synopsis Filicum.</i>		Hooker's <i>Species Filicum.</i>		Thwaites' <i>Enumeratio.</i>		Beddome's <i>Ferns of British &amp; Southern India.</i>		HABITAT, ETC.
NO.	SPECIES.	VOL.	PAGE.	SPECIES.	PAGE.	VOL.	PLATE.	
37	L. (SYNAPHLEBIUM) NITENS <i>Bl.</i>	1	222	L. Recurvata, <i>Wall.</i> pl. 70	388	S	27	Common in the forests of the Central Province, above 2000 ft. Terraneous.
			223	L. Propinqua, <i>Hk.</i> pl. 66				
			224	L. Obtusa, <i>J. Sm.</i>				
41	L. (SCHIZOLOMA) LANCEOLATA <i>Ldb.</i>	1	220	L. Ensifolia, <i>Sw.</i>	388	S	25	Very common in the forests of the Central and Southern Provinces, at low elevations. Terraneous.
			219	L. Griffithiana, <i>Hk.</i> pl. 68	1382	B	29	
			219	L. Pentaphylla, pl. 67				
44	L. (        ) HETERO- PHYLLA <i>Dry.</i>	1	223	Idem		S	26	Hantane Peak. Kegalla. Rare. Terraneous. Probably dies off during the N.E. monsoon.
						S	206	L. Heterophylla, <i>Bedd.</i>

### GENUS 21. ADIANTUM.

3	A. LUNULATUM - - <i>Burm.</i>	2	11	Idem	387	S	1	Idem	Common on old walls about Kaudy and Central Province. Very abundant on the Eastern Ranges down to Binteune.
			12	A. Deflectens, <i>Moore</i>					
			12	A. Dolabriforme, <i>Hk.</i>					
5	A. CAUDATUM - - - <i>L.</i>	2	13	Idem	387	S	2	Idem	Extremely abundant in the Central, Western and Southern Provinces, up to 2000 ft. On rocks, walls and dry banks. A. Rhizophorum at Matale and Kurunagalla.
			12	A. Rhizophorum, <i>Sw.</i> pl. 80	387				
			14	A. Edgworthii, <i>Hk.</i> pl. 81					
41	A. CAPILLUS-VENERIS - <i>L.</i>	2	36	Idem	387	S	4	Idem	On wet rocks about Hackgalla.
57	A. HISPIDULUM - - - <i>Sw.</i>	2	31	Idem	387	S	3	Idem	Common in the forests of the Central Province, up to 4000 ft. Terraneous, and on rocks.
58	A. FLABELLULATUM - - <i>L.</i>	2	30	Idem	387	S	218	Idem	Ouvah District, <i>Thw.</i>

### GENUS 25. CHEILANTHES.

21	C. MYSURENSIS - - <i>Wall.</i>	2	94	Idem - - pl. 100	387	S	190	Idem	On rocks and banks, Rattotta, Matale, Happon-tella and Ouvah, at low elevations.
			95	C. Chusana pl. 106					
26	C. THWAITESII - - <i>Kuhn</i>	2	89	C. Varians, <i>Hk.</i> pl. 103	387	S	189	C. Varians, <i>Hk.</i>	Kurunagalla and Kallupahane, <i>Thw.</i>
35	C. TENUIFOLIA - - - <i>Sw.</i>	2	82	Idem - - pl. 87	387	S	188	Idem	On rocks and banks, Western Province. Grows in great beauty on Pattawella Rock, near Colombo.
53	C. (ALEUTOPTERIS) FARINOSA <i>Klf.</i>	2	77	Idem	387	S	191	Idem	On rocks in the highest forests of the Central Province.—Silver Fern.

### GENUS 30. PELLÆA.

7	P. (CHEILOPLECTON) GERANI- FOLIA, <i>Fée</i>	2	132	Idem	386	S	37	Pteris Geraniifolia, <i>Raddi</i>	Very common on rocks and walls, up to 4000 ft. Mattoorattoo, Ambawella, Ouvah.
25	P. (ALLOSORUS) BOIVINI <i>Hk.</i>	2	147	Idem - - pl. 118	386	S	36	Pteris Boivini, <i>Moore</i>	Summit of Wattakelly Hill. Terraneous. Probably dies off during part of the year.

35	P. (PLATYLOMA) FALCATA	Fée	2	135	Idem γ Nana	pl. 111	Addenda	- 3933	S	22	Platyloma Falcatum, J. Sm.	Near Rock Cave, Telgama. Terraneous.
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GENUS 31. PTERIS.

1	P. LONGIFOLIA	- - - L.	2	157	Idem		386	Idem	- - 3144	S	33	Idem	Badulla Road, below Hackgalla. Terraneous.
4	P. CRETICA	- - - L.	2	159	Idem		386	Idem	- - 3502	S	39	Idem	About Hackgalla. Terraneous.
6	P. HOOKERIANA	- - Agardh.	2	165	Idem		386	Var. β. Cretica	1329	S	40	Idem	In forests of the Southern Province, at very low elevations. Terraneous.
10	P. CRENATA	- - - Sw.	2	163	Idem	pl. 127	386	Idem	- - 1328	S	35	Idem	Very common at low elevations in the Central Province. Terraneous.
22	P. QUADRIAURITA	- Retz.	2	179	Idem	pl. 134	386	Idem	- - 1330	S	31	Idem	Extremely abundant in the Western, Central and Southern Provinces, at all elevations, up to 6000 ft. Terraneous.
36	P. PELLUCENS	- - Agardh.	2	191	Idem			Addenda	- 3945	S	32	Idem	Glen forest, Matale. Terraneous.
40	P. (PÆSIA) AQUILINA	- L.	2	196	P. (Ornithopteris) Aquilina		386	P. (Ornithopteris) Aquilina	1332	S	42	P. Aquilina, L. var. β. Lanuginosus	Extremely abundant at the higher elevations. Terraneous.
46	P. (CAMPTERIA) BIAURITA	L.	2	203	Idem		387	Idem	- - 1048	S	44	Idem	Common at elevations above 1500 ft. Terraneous.
47	P. ( " ) PATENS	- Hk.	2	177	P. Patens, Hk. pl. 137		386	Eupteris Patens, Hk.	1047	S	205	Idem	Oodavella, Matale and Moorowa forests, above 2000 ft. Terraneous.
81	P. (LITOBROCHIA) INCISA	Thunb.	2	230	Idem	- - 1320	387	P. Aurita, Blum.	1326	S	221	Litobrochia Incisa, Thunb.	Common in the forests of the Central and Southern Provinces, above 3000 ft.
82	P. ( " ) TRIPARTITA	Sw.	2	225	Idem		387	Idem	- - 1327	S	220	Litobrochia Tripartita, Sw.	Common in the Central and Southern Provinces. Very common about Galle. Terraneous.

GENUS 32. CERATOPTERIS.

1	C. THALICTROIDES	- Brong.	2	235	Idem		379	Idem	- - 980	S	75	Idem	Common in the Western and Southern Provinces, in wet swampy places.
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GENUS 33. LOMARIA.

1	L. PATERSONI	- - - Spr.	3	3	L. Patersoni, Spr.		381	L. Elongata, Bl.	1333	S	28	L. Elongata, Bl.	Common in the forests of the Central Province, above 4000 ft. Terraneous.
	Var. β. ELONGATA	- Blume	3	3	L. Elongata, Bl. pl. 143								

GENUS 34. BLECHNUM.

15	B. ORIENTALE	- - - L.	3	52	Idem		381	Idem	- - 977	S	29	Idem	Extremely abundant in the Western and Central Provinces, up to 6000 ft. Terraneous.
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GENUS 37. DOODIA.

3	D. DIVES	- - - Kunze	3	73	Idem, var. β. Zeylanica		382	Idem, var. β. Zeylanica	976	S	222	Idem	Not uncommon about Hackgalla and in the forests of the Central Provinces, above 4000 ft. Terraneous.
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GENUS 38. ASPLENIUM.

1	A. (THAMNOPTERIS) NIDUS	L.	3	77	Idem		383	Idem	- - 3267	B	197	Idem	Common on trunks of trees, up to 2000 ft.
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Hooker & Baker's <i>Synopsis Filicum.</i>			Hooker's <i>Species Filicum.</i>			Thwaites' <i>Enumeratio.</i>			Beddome's <i>Ferns of British &amp; Southern India.</i>			HABITAT, ETC.
NO.	SPECIES.		VOL.	PAGE.	SPECIES.	PAGE.	SPECIES.	VOL.	PLATE.	SPECIES.		
4	A. ENSIFORME	- - Wall.	3	89	Idem	383	Idem - - 1334	S	125	Idem	About Newera Ellia, and Wattakelly Hill, above 5000 ft. On rocks and trees.	
42	A. NORMALE	- - - Don	3	139	A. Multijugum, Wall. pl. 188	384	Idem - - 1005	S	133	Idem	Common at elevations above 4000 ft. Terraneous.	
50	A. WIGHTIANUM	- - Wall.	3	105 106	Idem - - pl. 167 A. Longipes, Fre	383	Idem - - 1070	S	126	Idem	Not common. Forests of the Central Province, above 2000 ft.	
59	A. VULCANICUM	- - - Bl.	3	102 107 108	Idem A. Heterodon, Mott. A. Walkeræ, Hk. pl. 163		Dr. T. includes this with A. Wightianum			Not figured	Common about Newera Ellia, on rocks about streams.	
61	A. TENERUM	- - - Forst.	3	117	Idem	383	A. Elongatum, Sw. 1007	S	224	A. Elongatum, Sw.	Not common. Oodawella. Matale, east, on rocks.	
64	A. ERECTUM	- - - Bory	3	126	Idem	383	Idem - - 3141	S	135	A. Brasilicnse, Radl.	Not uncommon in the higher forests of the Central Province.	
65	A. PERSICIFOLIUM	- J. Sm.	3	109	Idem var. $\beta$ . Latifolium	383	Idem - - 3461	S	128	Idem	Common on rocks about Newera Ellia, and the forests above 5000 ft.	
94	A. FALCATUM	- - - Lam.	3	160	Idem C. P. 1080	384	A. Caudatum, Forst. 1339	S	143	A. Caudatum, Forst.	Common on rocks, Western and Central Provinces, at low elevations. Pattawella Rock, near Colombo.	
95	A. CAUDATUM	- - - Forst.	3	152	Idem C. P. 1081	384	A. Falcatum, Lam. 3140			?	Newera Ellia, and higher forests of the Central Province.	
	A. GARDNERI	- - - Baker			?	384	A. Macrophyllum, Sw. 1340			?	Southern Province, on rocks in the forests, above 1500 ft.	
100	A. FORMOSUM	- - - Willd.	3	143	Idem	384	Idem	S	136	Idem	Uncommon. On rocks in river-bed, Dooroomadella. East Matale.	
102	A. RESECTUM	- - - Smith	3	130	Idem	383	Idem - 427, 3269, 1336-8	S	132	Idem	Common in the forests of the Central Province, above 2000 ft.; generally on rocks and rocky banks. The large forms in wet swampy spots.	
104	A. HETEROCARPUM	- Wall.	3	132	Idem - - pl. 175	383	Idem - - 1006	S	131	Idem	Common on rocks in the forests of the Central Province, above 3000 ft.	
105	A. PLANICAULE	- - Wall.	3	163	Idem - - pl. 200	384	Idem - - 3289	S	139	Idem	Not common. Wattakelly Hill. Vicarton forests, above 3000 ft. On rocks and trees.	
125	A. FURCATUM	- - Thunb.	3	165	Idem	384	Idem - - 3497	S	144	Idem	Common about Newera Ellia and Hackgalla.	
126	A. AFFINE	- - - Sw.	3	169 170	Idem - - pl. 202 A. Spathulinum, J. Sm.	384	A. Spathulinum, Sm. 2905, 1341	S	226	A. Spathulinum, J. Sm.	All common, but not distinguished by any constant characters, and therefore the proper habitats cannot be defined for them separately.	
127	A. NITIDUM	- - - Sw.	3	172	Idem	384	Idem - - 1008	S	148 149	Idem var. Obtusum		
128	A. LASERPITHIIFOLIUM	Lam.	3	171	Idem - - pl. 203		Dr. T. transfers this plant to A. Nitidum 3801	S	225	Idem		
134	A. VARIANS	- - Hk. & Gr.	3	192	Idem	384	Idem - - 3139	S	129	Idem	Abundant under rocks and large stones, at Mattoorattoo, Ambawella, Rambodde, 3000 to 5000 ft.	
152	A. TENUIFOLIUM	- - - Don	3	193	Idem	384	Idem - - 3268	S	130	Idem	On rocks in the beds of streams, at Newera Ellia. Rare. Dies off in S.W. monsoon.	



166	A. (DAREA) RUTÆFOLIUM <i>Kunze</i>	3	206 209	A. Rutæfolium, <i>Kunze</i> A. Prolongatum, <i>Hk.</i>	384	A. Prolongatum, <i>Hk.</i> 1348	S	138	A. Prolongatum, <i>Hk.</i>	Singhe Raja forest, <i>Thw.</i>
182	A. (ATHYRIUM) HOHENACKERIA- NUM <i>Kunze</i>	3	220	Idem		Addenda - 3867	S	150	Idem	Pittawella, <i>Beckett.</i>
189	A. ( " ) MACROCARPUM <i>Bl.</i>	3	222	Idem	384	Idem - - 1372	S	152 153	Idem <i>var. β.</i>	Not uncommon about Newera Ellia. Terra- neous.
190	A. (ATHYRIUM) NIGRIPES <i>Bl.</i>	3	222 227	Idem A. Gymnogrammoi- des, <i>Klotsch</i>	384 385	A. Nigripes - 3067 A. Gymnogrammoi- des, <i>Klotsch</i> 1344-5	S	157 156	A. Nigripes, <i>Mett.</i> A. Gymnogrammoi- des, <i>Kl.</i>	Common in the forests of the Central Province, above 5000 ft. Terraneous.
194	A. ( " ) ASPIDIODES <i>Schlecht.</i>	3	223	Idem	385	Idem - - 1346	S	155	A. Pectinatum, <i>Wall.</i>	About Newera Ellia, in the forests, up to 7000 ft. Terraneous.
200	A. (DIPLAZIUM) LANCEUM <i>Thunb.</i>	3	235	Idem	385	Idem - - 1335	S	227	Idem	Forests of Matale East, and Safragam, at an ele- vation of 2000 to 3000 ft. Terraneous. Dies off during N.E. monsoon.
203	A. ( " ) ZEYLANICUM <i>Hk.</i>	3	237	Idem	385	Idem - - 3101	S	228	Idem	Forests of Ambagamowa and Kotmallee, <i>Thw.</i>
217	A. ( " ) SYLVATICUM <i>Presl</i>	3	248	Idem	385	Idem - - 1349	S	161	Idem	Common in the forests of the Central Province, at 2000 to 4000 ft. elevation. Terraneous.
226	A. ( " ) JAPONICUM <i>Thunb.</i>	3	251	A. Schkuhrrii, <i>Mett.</i>	385	A. Schkuhrrii, <i>Mett.</i> , & Addenda 3100 A. Decussatum, <i>Wall.</i> 3951	S B	230 292	Dipl. Schkuhrrii, <i>Mett.</i> Dipl. Decussatum, <i>Wall.</i> C. P. 3951	Forests of the Central Province, above 3000 ft. Terraneous.
227	A. ( " ) THWAITESII <i>A. Br.</i>	3	250	Idem	385	Idem - - 1343	B	291	Idem	In the forests about Newera Ellia. Terraneous.
244	A. ( " ) POLYPODIOIDES <i>Mett</i>	3	257	Idem	385	Idem 1352, 3098	S B	163 293	Dipl. Asperum, <i>Bl.</i> Idem C. P. 1852	Common in the forests of the Central Province, above 3000 ft. Terraneous.
246	A. ( " ) MAXIMUM <i>Don</i>	3	248	Included with A. Syl- vaticum in part, and A. Polypodioides, Note, p. 258	385	Note to A. Polypo- dioides 3332	S	229	Dipl. Decurrens, <i>Beddome</i>	Common in the forests of the Central and Southern Provinces, at an elevation of 2000 to 4000 ft. Ter- raneous.
249	A. ( " ) LATIFOLIUM <i>Don</i>	3	258	A. Dilatatum, <i>Hk.</i>	385	A. Dilatatum, <i>Hk.</i> 1350	S	162	Dipl. Dilatatum, <i>Bl.</i>	Common in the forests of the Central Province, 3000 to 5000 ft. Terraneous.
	A. ( " ) ASSIMILE <i>Endl.</i>				385	A. (Athyr.) Australe, <i>Brack.</i> 1347	B	294	Diplazium Assimile, <i>Endl.</i>	In the forests about Pittawella, Matale, at an elevation of 2000 ft. Terraneous.
274	A. (ANISOGONTUM) ESCULEN- TUM <i>Presl</i>	3	268	Idem	385	Idem - - 3270	S	164	Callipteris Esculenta, <i>Houlst. &amp; Moore</i>	Common in the Western and Central Provinces, at all elevations below 3000 ft. Terraneous.
275	A. ( " ) SMITHIANUM <i>Baker</i>			New species		Addenda - 3990	B	332	Callipteris Smithiana, <i>Baker</i>	In the forests of Oodawella and Matale East, at 3000 ft. Terraneous.

GENUS 39. ALLANTODIA.

1	A. BRUNONTIANA - - <i>Wall.</i>	3	275	Idem	385	Idem - - 2543	S	159	Idem	Common in the forests of the Central Province, 2000 to 4000 ft. Terraneous.
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GENUS 40. ACTINIOPTERIS.

1	A. RADIATA - - - <i>Link.</i>	3	276	Idem	386	Idem - - 1342	S	124	Idem	Trincomalee, <i>Gardner.</i> Gouagama, near Kaudy, <i>Thwaites.</i>
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GENUS 43. ASPIDIUM.

13	A. (POLYSTICHUM) AURICULA- TUM <i>Sw.</i>	4	11	Idem - - pl. 218	389	Idem - - 1366	S	120	Idem	Common in the forests of the Central Province, about 5000 ft. Terraneous.
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Hooker & Baker's <i>Synopsis Filicum.</i>			Hooker's <i>Species Filicum.</i>			Thwaites' <i>Enumeratio.</i>			Beddome's <i>Ferns of British &amp; Southern India.</i>			HABITAT, ETC.
NO.	SPECIES.		VOL.	PAGE	SPECIES.	PAGE	SPECIES.	VOL.	PLATE	SPECIES.		
18	A. (POLYSTICHUM) ACULEATUM <i>Sw.</i>		4	18	Idem	390	Idem 1376, 8503 A. Biaristatum, <i>Bl.</i> 3275	S	121	Idem	Common in the forests of the Central Province, above 5000 ft.	
27	A. ( " ) ANOMALUM <i>Hk. &amp; Arn.</i>		4	27	Idem	390	Idem - - 3504	B	219	Idem	Horton Plains and Happootella, 5000 to 6000 ft. <i>Thwaites</i> . Probably dies off during part of the year.	
28	A. ( " ) AMABILE <i>Blume</i>		4	25	Idem - - pl. 225	390	Idem - - 3287	S	109	Lastrea Amabilis, <i>Moore</i>	Not uncommon in the forests of the Central Province, 5000 to 6000 ft. Terraneous.	
37	A. ( " ) ARISTATUM <i>Sw.</i>		4	27	Idem	390	Idem 1373, 3384	S	101	Lastrea Aristata, <i>Moore</i>	Common in the forests of the Central Province, 1500 to 6000 ft. Terraneous.	
37	A. ( " ) CONIFOLIUM <i>Wall.</i>		4	28	A. Aristatum, <i>var. β.</i> Coniifolium, <i>Wall.</i>		Addenda - 3938	B	261	Lastrea Coniifolia, <i>Wall.</i>	Common in the forests of the Central Province, 4000 to 6000 ft.	
55	A. MEMBRANACEUM - <i>Hook.</i>		4 5	50 105	A. Giganteum, <i>var.</i> Minor A. Membranaceum, <i>Hk.</i>	390	A. Giganteum, <i>var. Minor</i> 1358	S	243	Sagenia Gigantea, <i>Bl. var. Minor</i>	Common in the Matale district, about 1000 to 1500 ft. Terraneous.	

GENUS 44. NEPHRODIUM.

10	N. (LASTREA) HIRTIPES <i>Hk.</i>		4	115	Idem - - pl. 249	392	Aspidium Hirtipes, <i>Bl.</i> 1291	S	93	Lastrea Hirtipes	Common in the forests of the Central Province, above 3000 ft. Terraneous.
29	N. ( " ) CALCARATUM <i>Hk.</i>		4 4	93 108	Idem N. (L.) Falcilobum, <i>Hk.</i>	391	Asp. Calcaratum, <i>Bl.</i> 1363, 3273, 992, 3050	S	246 105	L. Calcarata, <i>Bed.</i> L. Falciloba, <i>Hook.</i>	Very common at all elevations, up to 6000 ft., in the Western, Central and Southern Provinces. Terraneous.
47	N. ( " ) BEDDOMEI <i>Baker</i>				New species	391	Asp. Gracilescens, <i>Bl.</i> 1287	S	110	L. Gracilescens, <i>Hk.</i>	Very common in swampy places about Newera Ellia.
53	N. ( " ) PROLIXUM <i>Baker</i>		4	109	N. (L.) Oclthodes, <i>Hk. var. β.</i> A. Tylodes, <i>Kze.</i>	392	Asp. Oclthodes, <i>Kze.</i> 975	S	106 107	L. Oclthodes, <i>Kze.</i> L. Tylodes, <i>Kze.</i>	Common in the higher forests of the Central Province. Terraneous.
72	N. ( " ) SYRMATICUM <i>Baker</i>		4	115	N. (L.) Spectabile, <i>Hk.</i>	392	Asp. Spectabile, <i>Bl.</i> 3274	S	108	L. Spectabilis, <i>J. Sm.</i>	Forests of Oodlawella. Terraneous.
73	N. ( " ) FILIX-MAS <i>Rich</i>		4	116	Idem, <i>var. β.</i>	392	Asp. Filix-mas 1364 <i>var. β.</i>	S	111	L. Patentissima, <i>Bed.</i>	Forests about Newera Ellia. Terraneous.
83	N. ( " ) FLACCIDUM <i>Hk.</i>		4	133	Idem - - pl. 263	391	Asp. Flaccidum, <i>Bl.</i> 3802	S	250	L. Flaccida, <i>Hook.</i>	Wattakelly Hill. Forests about Newera Ellia. Terraneous.
94	N. ( " ) SPARSUM <i>Don</i>		4	132	N. (L.) Purpurascens, <i>Hk.</i> pl. 262	392	Asp. Sparsum, <i>Spr.</i> 4007, 1375 & <i>var. β.</i> Lata, <i>Moore</i> 1368-70, 3383	S S	103 248	L. Sparsa, <i>Moore</i> L. Deltoidea, <i>Bed.</i> 1368	Abundant in the forests of the Central and Southern Provinces, above 3000 ft.
95	N. ( " ) UNDULATUM <i>Baker</i>				New species	444	Asp. Undulatum, <i>Thur.</i> 3858	S	271	Lastrea Undulata, <i>Thur.</i>	On the upper part of Wattakelly Hill. Terraneous.
96	N. ( " ) DEPARIOIDES <i>Hk.</i>		4	139	Idem	393	Asp. Deparioides 3062	S	104	Lastrea Deparioides, <i>Hook.</i>	In the forests of the Southern Province, up to 1000 ft. Terraneous.
97	N. ( " ) THWAITESII <i>Baker</i>				New species	392	Asp. Concinnum, <i>Thur.</i> 3798	S	247	Lastrea Concinna, <i>Thur.</i>	In the forests of the Southern Province, about 2000 ft. Terraneous.
117	N. ( " ) ODORATUM <i>Baker</i>		4	141	N. (L.) Eriocarpum, <i>Decaisne</i>		Addenda - 3888 A. Eriocarpum, <i>Dec.</i>	S	95	Lastrea Odorata, <i>Bory</i>	On rocks on the Eastern Ranges of Central Province, <i>Beckett</i> .

124	N. (LASTREA) RECEDENS	Hook.	4	135	Idem - - pl. 265	393	Aspid. Recedens, Mett. 1374	S	98	Lastrea Recedens, J. Sm.	Common in the forests of the Central Province, 2500 to 5000 ft. Terraneous.
126	N. ( " ) MEMBRANIFOLIUM	Presl	4	131	Idem - - pl. 261	390	A. Membranifolium, Mett. 3061, 3096	S	102	Lastrea Membranifolia, Presl.	Not uncommon in the forests of the Central and Southern Provinces, 4000 to 5000 ft. Terraneous.
134	N. ( " ) INTERMEDIUM	Baker	4	135	N. (L.) Blumei, Hk. in part	392	Aspid. Blumei 3059	S	249	Lastrea Intermédia, Bl.	Forests of East Matalé, 2000 to 3000 ft. Terraneous.
136	N. ( " ) OBTUSILOBUM	Baker			New species	392	An var. β. A. Blumei? 3142	B	296	Idem	Forests of the Central Province, above 5000 ft. Terraneous.
137	N. ( " ) BORYANUM	Baker	4	133	N. (L.) Divisum, Hk.	392	Asp. Divisum, Wall. 3097	S	97	Lastrea Boryana, Willd.	Forests of the Central Province, 4000 to 5000 ft. Terraneous.
139	N. ( " ) SETIGERUM	Baker	4	142	H. (L.) Tenericaule, Hk. pl. 269	393	Asp. Tenericaule, 1286, 1365	S	99	Lastrea Setigera, Bl.	Common in the Central Province, in shady places, 1500 to 3000 ft. Terraneous.
Page 455	N. ( " ) WALKERÆ	Hooker	4	233	Pol. (Pheg.) Walkeræ, Hook.	444	Pol. Walkeræ, Hk. 3276	S	234	Polypod. Walkeræ, Hooker	In the forests of the Southern Province and of Saffragam, up to 3000 ft. Terraneous.
159	N. OTARIA	- - Baker	4	62	N. Aristatum, Hk. pl. 238	390	Aspid. Otaria, Kze., 1299	S	235	Alpha, Beta & Gamma	Gonagamma, Thu. Pittawella villages, Beckett. Dies off during part of the year.
162	N. UNITUM	- - R. Br.	4	79	N. Propinquum, Br.	391	Asp. Propinquum, 705	S	89	Neph. Propinquum, R. Br.	Western and Southern Provinces, in moist and marshy places.
164	N. PTEROIDES	- - J. Sm.	4	73	N. Terminans, J. Sm.	391	Aspid. Terminans, Wall. 990	S	90	N. Terminans, J. Sm.	Common in forests of the Central Province, below 3000 ft. Terraneous.
165	N. EXTENSUM	- - Hook.	4	72	N. Extensum, Bl.	391	Aspid. Extensum, 3391, 3498 Bl.	S	85	N. Extensum, Bl.	Not uncommon in the forests of the Central Province, 3000 to 4000 ft., and Hapbootelle. Terraneous.
171	N. CUCULLATUM	- - Baker	4	81	N. Unitum, Sieb.	391	Aspid. Unitum, Mett. 973	S	88	N. Unitum, Sieb.	Very common on banks and road-sides in the Central Province and Ouvah, up to 5000 ft.
172	N. HENKEANUM	- - Presl			Idem	391	Addenda - 3391				Small form: — Kitool Galla, Ambaganosa, Thu. Large form: — Ambawella and Oodapusselawa, about 5000 ft. Terraneous.
178	N. AMBOINENSE	- - Presl	4	75	Idem	391	Aspid. Arbuscula, Desv. 1359	S	87	Idem	Common in the forests of the Central Province, about 3000 to 5000 ft. Terraneous.
179	N. ARBUSCULA	- - Desv.	4	74	Idem	391					Not uncommon in the forests of the Central Province, 2000 to 4000 ft. Terraneous.
183	N. PENNIGERUM	- - Hk.	4	82	N. Pennigerum, Bl.	391					Very common in the Western, Central and Southern Provinces, at all elevations up to 6000 ft. Terraneous.
187	N. MOLLE	- - Desv.	4	67	Idem	391	Idem	S	84	Idem	Not uncommon in the forests of the Central and Southern Provinces, 2000 to 5000 ft. Terraneous.
194	N. TRUNCATUM	- - Presl.	4	77	N. Abruptum, Pr. pl. 241	391	Aspid. Eusorum, Thu. 3064	B	130	N. Eusorum, Thu.	Not uncommon in the forests of the Central Province, 2000 to 5000 ft. Terraneous.
205	N. (SAGENIA) SUBTRIPHYLLUM	Baker	4	52	Asp. Subtriphyllum, Hk.	390	A. Subtriphyllum, Hk. 1300	S	242	Sag. Subtriphylla, "	Not uncommon at low elevations about Kurunugalla and Rattotta. Terraneous.
211	N. ( " ) POLYMORPHUM	Baker	4	54	A. Polymorphum, Wall.	390	A. Polymorphum, Wall. 1354	B	48		Not uncommon in the forests of the Central and Southern Provinces, 2000 to 5000 ft. Amongst rocks.
217	N. ( " ) DECURRENS	Baker	4	47	Asp. Pteropus, Kze.	390	Aspid. Pteropus, Kze. 1355	S	82	Sagenia Pteropus, Moore	Common about the forests of Matalé, 1500 to 3000 ft. Terraneous. Dies off during N.E. monsoon.
	& var. MINOR					438	" var. β. 3808	S	245	Ditto, var. Minor	Peradeniya Garden, Thraites.

Hooker & Baker's Synopsis Filicum.			Hooker's Species Filicum.			Thwaites' Enumeratio.			Beddome's Ferns of British & Southern India.			HABITAT, ETC.
NO.	SPECIES.		VOL.	PAGE	SPECIES.	PAGE	SPECIES.		VOL.	PLATE	SPECIES.	
221	N. (SAGENIA) CICTUTARIUM Baker		4	48	Aspid. Cicutarium, <i>Sic.</i>	390	Asp. Cicutarium, <i>Sic.</i> 1356	S	81		Sagenia Coadunata, <i>Moore</i>	Forests about Rambodde. Terraneous. Dies off during N.E. monsoon.
	N. ( " ) SIMULANS Baker				New species	390	" var. $\beta$ . 3331	S	244		S. Thwaitesii, <i>Bcl.</i>	Forests about Galle. Southern Province. Terraneous.
223	N. ( " ) (GIGANTEUM) Baker		4	50	Aspid. Giganteum, <i>Bl.</i>	390	Asp. Giganteum, <i>Bl.</i> 1357	S	80		Sag. Gigantea, <i>Bl.</i>	Common in the forests of the Central and Southern Provinces, 2000 to 4000 ft. Terraneous.
GENUS 45. NEPHROLEPIS.												
1	N. CORDIFOLIA - - Baker		4	151	N. Tuberosa, <i>Pr.</i>	393	N. Tuberosa, <i>Presl</i> , 1377	S	92		N. Tuberosa, <i>Pr.</i>	Extremely common on rocks, at all elevations up to 5000 ft.
2	N. EXALTATA - - Schott		4	152	Idem	393	Idem - - 3077	S	93		Idem	Very common on rocks and banks on the roadsides, Central and Western Provinces, up to 5000 ft.
3	N. ACUTA - - - Presl		4	153	Idem	393	Idem - - 991	S	94		Idem	Not so common as the preceding. Grows at the lower elevations.
4	N. RAMOSA - - - Baker		4	154	N. Obliterata, <i>Hk.</i>	393	N. Obliterata, <i>Hk.</i> 1376	S	251		N. Obliterata, <i>Hk.</i>	Common in the forests of the Central and Southern Provinces, 2000 to 5000 ft. Climbing on trees.
GENUS 46. OLEANDRA.												
2	O. MUSÆFOLIA - - Kunze				New species	393	O. Neriformis, <i>Car.</i> 1378	S	91		O. Neriformis, <i>Car.</i>	Not uncommon on rocks and trees in the forests of the Central Province, up to 6000 ft. Dies off during N.E. monsoon.
GENUS 48. POLYPODIUM.												
26	P. (PHEGOPTERIS) DISTANS Don		4	244	P. Paludosum, <i>Bl.</i>	394	P. Paludosum, <i>Bl.</i> 1288	S	168		P. Paludosum, <i>Bl.</i>	In marshy places about Newera Ellia.
33	P. ( " ) RUFESCENS Bl.		4	257	Idem	394	Idem - - 3143	S	236		Idem	Not uncommon in the forests of the Central Province, 2000 to 5000 ft. Terraneous.
48	P. (PHEG.) PUNCTATUM Thunb.		4	272	P. Rugulosum, <i>Lab.</i>	394	P. Rugulosum, <i>Lab.</i> 1285	S	170		P. Rugulosum, <i>Lab.</i>	Common about Newera Ellia, in the forests and shady places. Terraneous.
65	P. (GONIOPTERIS) UROPHYLLUM Wall.		5	9	Idem	394	P. Granulosum, <i>Presl</i> 3063	S	239		Goniop. Urophylla, <i>Wall.</i>	Oodawella forest, uncommon. Terraneous.
69	P. " ) PROLIFERUM Presl		5	13	Idem	439	Idem - - 3145	S	172		Goniop. Prolifera, <i>Presl</i>	Minnery, Eastern Province, <i>Beckett</i> . Not common.
92	P. PARASITICUM - - - Mett.		4	167	Idem	393	Idem - - 1283 var. Pilosiusculum 3921	S	165		Idem	On rocks and trees above Rambodde, 4000 to 5000 ft. <i>Var. Pilosiusculum</i> . Seeta Gongolla. Adam's Peak, <i>Thur.</i>
98	P. HIRTELLUM - - - Bl.		4	166	Idem		Addenda - 3902	B	212		Idem	Forests of Dickoya and Telganna, <i>Beckett</i> .
101	P. ZEYLANICUM - - Mett.		4	169	Idem - - pl. 272	393	Idem - - 3074	S	237		Idem	Common in the forests about Newera Ellia, on rocks and trees.
121	P. CUCULLATUM - - - Nees		4	176	Idem	394	Idem - - 1282	S	233		Calymmodon Cucullatus, <i>Presl</i>	Not uncommon on rocks and trees in the Central and Southern Provinces, 3000 to 5000 feet.
140	P. GLANDULOSUM - Hook.		4	193	Idem	394	Idem - - 1289	S	238		Idem	On trees in the forest near the summit of Wattakella Hill. Rare.
P. Pinniderum Baker			New Species			Addenda 4005			One plant only found by Dr. Thwaites at Horton plain.			

148	P. OBLIQUATUM - - - Bl.	4	190	Idem - - pl. 276	394	Idem - - 1284	S	267	Idem	Common on trees and rocks in the forests about Newera Ellia.
149 Part.	P. REPANDULUM - - Mett.	4	190	P. Obliquatum, Bl. in part [see Note].		C. P. 1290				Not common. In the forests about Rambodde, and in the Moorooa Coole, on trees.
149 Part.	P. THWAITESII - Beddome			New species		Addenda - 3900	B	188	Idem	Forests about Dickoya, on trees, not common.
151	P. MINUTUM - - - Bl.	4	188	Idem	394	P. Parvulum, Bory 3073	B	189	P. Subfaleatum, Bl.	Not uncommon in the forests of the Central Province, above 3000 ft., on trees.
168	P. DECORUM - - - Brack.	4	179	Idem	439	Idem - - 3816	S	238	Idem	Singhe Rajah forest, Thwaites.
278	P. (NIPHOBOLUS) ADNASCENS Sw.	5	47	Idem	395	Idem - 993, 3293	S	184	Niph. Adnascens, Sw.	Common on rocks and trees in the Western and Central Provinces, up to 2000 ft.
280	P. ( " ) PANNOSUM Mett.	5	49	P. Lingua, Sw.	395	P. Lingua, Sw. 1294	S	240	Niph. Lingua, Sw.	Not uncommon in the warmer parts of the island, up to 3000 ft., Thwaites.
287	P. ( " ) FISSUM - -	5	48	P. Porosum, Wall.	395	P. Porosum, Wall. 3104	S	183	Niph. Fissus, Bl.	Common on trees and rocks in the forests of the Central Province, 3000 to 5000 ft.
293	P. ( " ) GARDNERI Mett.	5	51	Idem	395	Idem - - 988	S	241	Niph. Gardneri, Mett.	Common on rocks and trees in the Central and Southern Provinces, up to 3000 ft.
304	P. (PHYMATODES) LINEARE Thunb.	5	57	P. Loriforme, Wall.	394	P. Wightianum, Wall. 1295	S	280	Pleopeltis Lineare, Thunb.	Common in the forests about Newera Ellia and Hackgalla, on rocks and trees.
314	P. ( " ) LANCEOLATUM L.	5	56	P. Lepidotum, Willd.		Addenda - 3988	S	181	Pleop. Lanceolata, L.	Ambawella estate. On rocks and stumps amongst the coffee trees.
339	P. ( " ) MEMBRANACEUM Don	5	70	Idem	395	Idem - - 1298	S	177	Pleop. Membranaceum, Don	On rocks and trees in the forests of the Central Province, 2000 to 5000 ft. Dies off during N.E. monsoon.
341	P. ( " ) IRIODES Lam.	5	67	Idem	395	Idem - - 3799	S	178	Pleop. Irioides, Lam.	Below Pittawella estate, on trees and rocks.
350	P. ( " ) PTEROPUS Bl.	5	75	P. Tridactylon, Wall.	395	P. Tridactylon, Wall.	S B	179 111	Pleop. Pteropus, Bl.	Mooroota, Gardner. Ambegamoa, Thw. Grows in water.
355	P. ( " ) TRIFIDUM Don	5	77	P. Oxylobum, Wall.	395	P. Oxylobum, Wall. 3291	S	175	Pleop. Trifida, Don	Common on rocks and trees in the forests about Newera Ellia and Oodapusselava. Dies off during the N.E. monsoon.
362	P. ( " ) PHYMATODES L.	5	82	Idem	395	Idem - - 1297	S	173	Pleop. Phymatodes, L.	Common at low elevations in the Western and Central Provinces, on banks, rocks and trees.
363	P. ( " ) NIGRESCENS Bl.	5	81	Idem	395	Idem - - 1296	S	176	Pleop. Nigrescens, Bl.	Common on rocks and banks in the forests of the Central Province, 2000 to 4000 ft. Dies off.
366	P. ( " ) DILATATUM Wall.	5	85	Idem		Addenda - 3973	B	122	Pleop. Dilatata, Wall.	Forest above Telgemma, about 4000 ft. Rare.
381	P. (DRYNARIA) QUERCIFOLIUM L.	5	96	Idem	395	Idem - - 3265	S	187	Idem	Extremely abundant on rocks and trees in the Western, Central and Southern Provinces, at all elevations up to 3000 ft.
382	P. ( " ) LINNEI Bory			Included with the foregoing species		Included with the foregoing species	B	315	Idem	Western Province, near Colombo.

GENUS 51. MONOGRAMME.

6	M. JUNGHUBNII - - Hook.	5	123	Idem - - pl. 289	381	Vaginularia Jung- hubnii, Mett., 1281	S	210	Idem	On rocks and trees in the forests of the Central and Southern Provinces, about 3000 ft.
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Hooker & Baker's <i>Synopsis Filicum.</i>			Hooker's <i>Species Filicum.</i>			Thwaites' <i>Enumeratio.</i>			Beddome's <i>Ferns of British &amp; Southern India.</i>			HABITAT, ETC.		
NO.	SPECIES.		VOL.	PAGE	SPECIES.	PAGE	SPECIES.		VOL.	PLATE	SPECIES.			
GENUS 52. GYMNOGRAMME.														
3	G. (LEPTOGRAMME)	TOTTA <i>Schlecht.</i>	5	138	Idem	382	Idem	- - 1292	S	49	Grammitis Totta, <i>Pr.</i>	In the forests about Newera Ellia. Terraneous.		
35	G. JAVANICA	- - - <i>Blume</i>	5	145	Idem	382	G. Serrulata, <i>Bl.</i>	3264	B	57	Idem	In the forests about Newera Ellia and Mattoo-rattoo. Terraneous.		
44	G. LEPTOPHYLLA	- - - <i>Desr.</i>	5	136	Idem		Addenda	- 3934	S	270	Idem	On rocks above Hackgalla Gardens. Rare. Dies off during part of the year.		
66	G. (SELLIGNEA)	LANCEOLATA <i>Hook.</i>	5	156	Idem	382	Idem	- - 3146	S	51	Loxogramme Lan- ceolata, <i>Presl</i>	On Pedrotallagalla, half-way up on the peak, on trees. Very rare.		
69	G. ( " )	INVOLUTA <i>Don</i>	5	155	Idem	382	Idem	- - 1302	S	50	Lox. Involuta, <i>Presl</i>	On rocks and trees about Newera Ellia forests. Common.		
GENUS 53. MENISCIMUM.														
3	M. TRIPHYLLUM	- - - <i>Sw.</i>	5	163	Idem	382	Idem	- - 1193	S	56	Idem	Forests of Matala and Saffragam, about 2000 to 3000 ft. Terraneous.		
4	M. THWAITESII	- - - <i>Hook.</i>			New species	382	Idem	- - 3145	S	223	Idem	Forests of Matala, about 3000 ft. Terraneous.		
GENUS 55. ANTROPHYUM.														
5	A. PLANTAGINEUM	- <i>Kaulf.</i>	5	170	Idem	382	Hemionitis Planta- gineum, <i>Car.</i>	3290	S	52	Idem	Common on rocks in the forests of the Central Province, above 2000 ft.		
7	A. RETICULATUM	- - <i>Kaulf.</i>	5	169	Idem	382	Hem. Reticulata, <i>Forst.</i>	1305	S	231	Idem	Common at low elevations in the Southern Province, and up to 4000 ft. in Ouwah, on rocks.		
GENUS 56. VITTARIA.														
1	V. ELONGATA	- - - <i>Sw.</i>				438	Idem	- - 3806	S	21	Idem	Very common in the forests of the Central Province, above 3000 ft., on rocks and trees.		
3	V. (TÆNIOPSIS)	FALCATA <i>Kze.</i>	5	182	Idem			3807	B	175	Tæniopsis Falcata, <i>Kze.</i>	Forests of Hatgodde, Matala, and Elbedde Dickoya, on trees, <i>Beckett.</i>		
7	V. ( " )	LINEATA <i>Sw.</i>	5	180	Idem	381	Idem	- - 281	S	54	Tæniopsis Lineata, <i>J. Sm.</i>	Forests of Southern Province, on trees, about 2000 ft.		
9	V. ( " )	SCOLOPENDRINA <i>Thur.</i>	5	177	V. Zeylanica, <i>Fee</i>		Idem	- - 1304	S	212	Tæniopsis Scolopen- drina, <i>J. Sm.</i>	In forests about Ratnapoora, and in the Southern Province, on rocks and trees, up to about 3000 ft.		
GENUS 57. TÆNITIS.														
5	T. BLECHNOIDES	- - - <i>Sw.</i>	5	187	Idem			3922	B	54	Idem	In the forests about Galle and Ratnapoora. Ter- raneous.		
GENUS 58. DRYMOGLOSSUM.														
2	D. PILOSELLOIDES	- <i>Presl</i>	5	190	Idem	381	Idem	- - 3076	S	55	Idem	Very common on trees about Colombo, and all over the Western and Central Provinces, below 2000 ft.		
GENUS 59. HEMIONITIS.														
2	H. CORDATA	- - - <i>Presl</i>	5	192	Idem	382	Idem	- - 1309	S	53	Idem	Common on rocks and banks in the Western and Central Provinces, at all elevations up to 3000 ft.		

GENUS 60. ACROSTICHUM.

7	A. (ELAPHOGLOSSUM) CONFORME Sw.	5	198	Idem	380	A. Marginatum, Wall. 1311	S	198	Elaphog. Conforme, Schott.	Common in the forests of the Central Province, above 4000 ft., on rocks and trees.
					380	A. Laurifolium, Thourus 1310	S	200	E. Laurifolium, Thourus	
48	A. ( " ) SPATHULATUM Bory			New species	380	A. Spathulatum, Bory 989				On rocks in the forests about Newera Ellia, and in the Southern Province, at a much lower elevation.
65	A. ( " ) SCAMOSUM Sw.	5	239	Idem	380	Idem - - 3292	S	197	E. Squamosum, J. Sm.	Above Rambodde, at about 5000 ft., on trees. Flowers in August to November.
68	A. (STENOCHLENA) SCANDENS J. Sm.	5	249	Idem	380	Idem - - 1312	S	201	Stenoch. Scandens, J. Sm.	Very common. Climbing on trees in the Western, Central and Southern Provinces, up to 2500 ft. Flowers August to October.
84	A. (EGENOLFIA) APPENDICULATUM Willd.	5	251	Idem	380	Idem - - 1314	S	194	Polybotrya Appendiculata, J. Sm.	Very common amongst stones in the beds of streams in the forests of the Central Province, up to 5000 ft.
95	A. (GYMNOPTERIS) VARIABILE Hook.	5	277	A. (Leptochilus) Variabile, Hooker	381	A. Decurrens, Hook. (1157) 1317-8	B	274	Gymnop. Variabile, Hk.	The simple-fronded form is common on rocks and banks in the forests of the Central Province, from 3000 to 6000 ft. The pinnate form grows in the forests about Matale, about 3000 ft., abundantly. Flowers during the S.W. monsoon.
97	A. ( " ) QUERCIFOLIUM Retz.	5	279	A. (Lept.) Quercifolium	381	Idem - - 1319	S	47	G. Quercifolium, Bernh.	Common in the Western Province about Colombo, on road-side banks.
107	A. ( " ) VIRENS, Wall.	5	261	A. (Heteroneuron) Virens	380	A. (Pæcil.) Hookerianum, Moore 1313	S	203	Pæcilopteris Terminans, Wall.	Oodawella forests. Terraneous.
						A. (Pæcil.) Repandum, Bl. 3075	S	207	P. Repanda, J. Sm.	Safragam forests, 2000 to 3000 ft. Terraneous.
109	A. (CHRYSODIUM) LANCEOLATUM Hook.	5	276	A. (Leptochilus) Lanceolatum, Hk.		Referred to A. Decurrens [ante] 1316	S	48	? Gymnopteris Féei, Moore	On rocks and stones in river-beds of streams, Rambodde and below Pittawella.
	A. ( " ) WALLII, Baker			New species						In a rocky ravine, Moorooa, Southern Province, on mossy stones.
127	A. ( " ) AUREUM, L.	5	266	Idem	380	Idem - - 1315	S	204	Idem	In swamps about Galle and Colombo. Very abundant.
127a	A. (HYMENOLEPIS) SPICATUM, L.	5	280	Idem	381	Idem - - 1303	S	46	Hymenol. Spicata, Presl	Not uncommon in the forests of the Central Province, 2000 to 4000 ft., on trees.

SUB-ORDER 3. OSMUNDACEÆ.

GENUS 62. OSMUNDA.

1	O. JAVANICA - - - Blume				379	Idem - - 2988	S	77	Idem	Very common on rocks in the beds of streams, in the forests about Newera Ellia.
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SUB-ORDER 4. SCHIZACEÆ.

GENUS 64. SCHIZÆA.

16	S. (ACTINOSTACHYS) DIGITATA Sw.				379	Idem - - 3105	S	268	Idem	In low jungles of Safragam and Western Province. Terraneous.
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GENUS 68. LYGODIUM.

2	L. DICHOTOMUM - - - Sw.				379	L. Circinatum, Sw. 1406	S	62	Idem	Not uncommon. Climbing on trees in the forests and clenas of the Western, Central and Southern Provinces, up to 2000 ft.
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Hooker & Baker's <i>Synopsis Filicum.</i>			Hooker's <i>Species Filicum.</i>			Thwaites' <i>Enumeratio.</i>			Beddome's <i>Ferns of British &amp; Southern India.</i>			HABITAT, ETC.
NO.	SPECIES.		VOL.	PAGE	SPECIES.	PAGE	SPECIES.	VOL.	PLATE	SPECIES.		
7	L. SCANDENS	- - - Sw.				379	Idem - - 1404	S	61	Idem	Extremely common in all the low country, scrambling over small jungle.	
10	L. PINNATIFIDUM	- - - Sw.				379	L. Japonicum, Sw. 1405	S	63	L. Flexuosum, Sw.	Common about Colombo, scrambling over hedges and low shrubs.	
SUB-ORDER 5. MARATTIACEÆ.												
GENUS 69. ANGIOPTERIS.												
1	A. ERECTA	- - - Hoffm.				379	Idem - - 1407	S	78	Idem	Common in the forests of the Central Province, 3000 to 5000 ft. Terraneous.	
GENUS 70. MARATTIA.												
1	M. FRAXINEA	- - - Smith				379	M. Sorbifolia, Sw. 3147	S	79	Idem	Not uncommon in the forests of the Central Province, above 5000 ft., in the beds of streams.	
SUB-ORDER 6. OPHIOGLOSSACEÆ.												
GENUS 73. OPHIOGLOSSUM.												
4	O. NUDICAULE	- - - L.					Addenda - 3993	S	71	O. Parvifolium, L.	On patnas about Bambragalla, Matale.	
5	O. VULGATUM	- - - L.				378	Idem - - 1408	S	72	O. Brevipes, Bedd.	About Newera Ellia plain, in the open.	
8	O. Pandurulum	Tr.				378	Idem 1409	S	269	Idem	on trees at low elevations	
GENUS 74. HELMINTHOSTACHYS.												
1	H. ZEYLANICA	- - - Hook.				378	Idem - - 1411	S	69	Idem	In the hedge-banks about Colombo, and other parts of the Western and Southern Provinces.	
GENUS 75. BOTRYCHIUM.												
5	B. DAUCIFOLIUM	- - - Wall.				378	Idem - - 1410	S	68	B. Subcarnosum, Wall.	Not uncommon on the borders of streams in the forests of the Central Province, 2500 to 4000 ft. Terraneous. Dies off during part of the year.	
6	B. VIRGINIANUM	- - - Sw.				378	Idem - - 3266	S	67	Idem. Var. Lannuginosum, Moore	Common under bushes on the plain of Newera Ellia. Dies off in January, and springs about June.	

NOTE. — Several of these ferns disappear at certain times, and some are only in fruit at particular seasons; the collector should therefore be forewarned that he may so time his search as to save disappointment. It would, for example, be vain to seek for *Botrychium Virginianum* from January to April at Newera Ellia, though it is abundant there during the remaining months of the year. In a future and more extended work on the Ferns of Ceylon, the periods of springing, dying off, and flowering of all those species which have particular seasons will be more completely indicated. In this present sketch the indications given are very partial and imperfect, but may nevertheless be of some use.



## NOTES.

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CYATHEA HOOKERI, Thw.—When in fruit, the fronds of this fern are apt to disappear in an unaccountable way; probably they are devoured by some animal. The plant is shy of fruit, and therefore collectors should not miss a chance.

DIACALPE ASPIDIODES, Bl., is scarce in the locality where it was first discovered, Blackpool, Newera Ellia, but is abundant and of much bolder growth at Kooroonda Oya, Mattoorattoo.

HYMENOPHYLLUM EXSERTUM, Wall, is variable. None of the Ceylon forms of the plant agree closely with the figure in Hk. Sp. Fil., the pinnæ of which are distant and the sori few, whereas in some of our Ceylon ferns the sori are very copious, and in all the pinnæ are more or less close.

HYMENOPHYLLUM POLYANTHOS, Sw.—The extreme forms of this very variable fern are very distinct, but they are connected completely by intermediate forms. The typical form of Swartz's plant is found at Condagalla, above Rambodde, and the variety *Blumeanum* of Sprengel is abundant in the forests of Moorooowa Corle. Intermediate forms are to be found at Vicarton, Matale, and at the Peacock, Pusilawa. The species is described in Hk. Syn. Fil. as "wingless," but nearly all my specimens are winged, some to the very base of the stipes.

HYMENOPHYLLUM NEESII, Hk., has hitherto passed in Ceylon for *H. Tunbridgense*, a fern which does not exist there. It possesses, in common with *H. Tunbridgense*, the marked character of very sharply serrated margins, but is in other respects distinct, especially in being strongly crisped. Major Beddome figures our plant correctly in his 'Ferns of Southern India,' plate 265, but calls it *H. Tunbridgense*, and attaches to his figure Hooker's description of that species. There are no specimens from Ceylon in the Kew Herbarium, either of *H. Tunbridgense* or of *H. Neesii*.

TRICHOMANES MUSCOIDES, Sw., is not uncommon in the higher forests, and is very variable. I cannot distinguish from it *T. Neilgherriense* or *T. Henzaianum*, of both of which I possess typical specimens. They seem to be identical with some of our varieties of *T. Muscoides*.

TRICHOMANES PROLIFERUM, Bl., is not common. The only typical specimens I have seen were found in the southern province. Dr. Thwaites gives Ambagama as its habitat, which is very probably correct; but many of the specimens sent to Kew from Peradeniya under this name are pronounced by Mr. Baker to be *T. Pyxidiferum*. It has often been remarked in Ceylon that *T. Proliferum* was very rarely proliferous, but it does not seem to have been suspected that the fern most commonly known as such was, in fact, of another species, until very lately. Very careful examination of my specimens, and comparison with those at Kew, satisfied Mr. Baker, however, that such was the case; and a very large proportion of what had been regarded in Ceylon as belonging to this species are truly *T. Pyxidiferum*, L.

TRICHOMANES DIGITATUM, Sw., enters into our list in place of *Hym. Corticola*, Hk., which Mr. Baker finds to be identical with it. The older name therefore prevails.

TRICHOMANES FILICULA, Bory.—Ceylon specimens of this species have nearly always copious spurious venules, stipes winged to the base, and the wing of the stipes ciliated, characters not in accordance with the description in the Synopsis.

TRICHOMANES PYXIDIFERUM, L., is a very variable plant both in Ceylon and elsewhere, but particularly so in Ceylon. In the southern province specimens are found so small as to be mistaken for *T. Parvulum*. At the top of Telgamma Pass, above Hoolankanda, it has been found with fronds three to four inches long, and not more than half an inch broad. Between these extremes it is to be found in every intermediate form. It is distinguished from *T. Proliferum* by the absence of the proliferous character, and by drying flat and smooth, instead of shrivelling as that species always does.

TRICHOMANES EXIGUUM, Beddome, was discovered in the Telgamma forests by Mr. T. N. W. Beckett, and has since been found abundantly in the southern province and Saffragam. It is distinguished from very small forms of *T. Muscoides*, which it strongly resembles, by the large, wide-open mouth of the involucre, which is quite free from, and beyond the edge of, the frond, and also by long straggling deciduous hairs on the margin.

DAVALLIA (HUMATA) PEDATA, J. Sm., and VESTITA, Blume, seem to be one species, the extremer forms of which are so mingled and connected in different specimens that they cannot be distinguished by any constant characters. Specimens found a year ago at Ambawella by Mr. Wynn combine the characters of both species so completely that they may with equal propriety be assigned to either. In the extreme forms of these species, the most obvious difference is in the *cutting*, but in this respect the extremes are completely connected by every intermediate form possible. Both species are figured in Hooker's Sp. Fil., plates 41 and 45, and in these figures the distinguishing characters (apart from the cutting) appear to reside in the form of the involucre, and in the scaly character of the stipes. Beddome's figures also make the species differ from each other in these two characters; but they are inversely referred to the two species by these authorities. Beddome's figure of *Pedata* has the involucre globose, and that of *Vestita* funicular. In Hooker's figures these forms are reversed. The form of the involucre may probably depend on the development of the fruit within, and be more or less tumid accordingly. A careful examination of many specimens, and comparison with the *suites* of both species at Kew, afford no means of distinguishing between the two forms by any constant character, or combination of characters.

DAVALLIA PULCHRA, Don.—There seems to be some doubt as to this name. Our Ceylon fern is that figured in Hooker's Sp. Fil., plate 51, under the name of *D. Chærophylla*, Wallich.

LINDSAYA FLABELLULATA, Dry., is not uncommon in the forest of the central and southern provinces, and exists in every form intermediate between that of typical *Flabellulata* and typical *Tenera*. Dr. Thwaites, in his 'Enumeratio,' suggests the probability of their being varieties of one species; and copious specimens collected in different parts of the country confirm that view. They are united in the Synopsis.

LINDSAYA NITENS, Blume.—The simple form *L. Recurvata* is rare in Ceylon. It is found in the southern province.

LINDSAYA LANCEOLATA, Lab.—The simple fronded form *L. Griffithiana* occurs in the southern province, growing along with the typical form. At Etangwella, in Matale, this fern approaches *L. Heterophylla*, the pinnæ being very distinctly again pinnate, but the pinnales are rounded, and have no main vein. In this respect they differ from the typical form of *L. Heterophylla*, and are probably distinct.

LINDSAYA HETEROPHYLLA, Dry.—The true typical form of this species, as distinguished from the abnormal form of *L. Lanceolata*, above mentioned, is rare. The venation is distinctly anastomosing; therefore the fern is a true *Schizoloma*, in which our species differs from that figured by Beddome.

ADIANTUM CAUDATUM, L., varies considerably from the densely villous, typical form, to the almost glabrous form of *A. Rhizophorum*; and from the almost entire form of pinna of *A. Edgworthii*, Hk., to the Matale type, in which the pinna is cut down nearly to the rachis. Specimens of all intermediate forms exist at Kew, and they are therefore united under one species in the Synopsis.

CHEILANTHES MYSURENSIS, Wall., attains a most luxurious growth on the road from Rattotta to Oodelamana, with fronds 18 inches in height.

CHEILANTHES THWAITESII, Kuhn.—Dr. Kuhn, 'Linnæa,' vol. xxxvi., p. 82, is of opinion that our Ceylon species, hitherto referred to *C. Varians*, Hk., is, in fact, distinct; and, as Mr. Baker agrees in this opinion, the new name is adopted in my list on their authority. My own specimens of the typical Himalayan plant do not enable me to discover any specific difference between the two. The Ceylon plant is said to have a tendency to be white farinose underneath.

PTERIS HOOKERIANA, Agardh., regarded by Dr. Thwaites as a variety of *P. Cretica*, is distinguished by its having a distinct involucre independent of the edge of the frond. The involucre of *P. Cretica* is the revolute margin of the frond. This character is constant in the specimens at Kew, and in very numerous other specimens to which reference has been made. The species seems otherwise distinct, and is so regarded in the Synopsis.

PTERIS QUADRIAURITA, Retz, is extremely variable. In its simplest form it resembles *P. Crenata* in having its pinnæ quite entire. Between this and the typical form of the plant, there exists in Ceylon every possible intermediate form. Perfectly simple and partly compound forms have been found growing from the same caudex. The greatest variety may be found in the Matale and Kurunagalla districts. One of these abnormal forms is figured by Beddome, who regarded it as a new species, and called it *P. Otaria*. Some specimens very closely resemble *P. Semipinnata*, from which species, however, all the forms of *P. Quadriaurita* are distinct. A specimen sent to Kew from Peradeniya by Gardner, under the name of *P. Semipinnata*, is clearly one of these abnormal forms of *Quadriaurita*. This specimen being the only authority for attributing the species to Ceylon, it is omitted in this catalogue.

PTERIS BIAURITA, L.—The Campterian character of this plant is said to be sometimes wanting. It is worthy of note, as distinguishing this species from *P. Quadriaurita*, that it is not subject to the very remarkable variations which characterise that species. It remains constant to its typical form elsewhere as well as in Ceylon.

PTERIS (CAMPTERIA) PATENS, Hk.—The Campterian venation in the deeply cut specimens in Ceylon is only to be observed in the very top of the frond, where extremely elongated costal arches are to be found quite close to the main rachis.

ASPLENIUM VULCANICUM, Bl., seems distinct from *A. Wightianum* in habit, texture and colour. The two species do not appear to be connected by intermediate forms in the herbarium at Kew, nor have I seen the connecting forms mentioned by Dr. Thwaites in his 'Enumeratio,' p. 383. About Newera Ellia some sportive forms of this species are to be found, in which the lobes at the points of the pinnæ are prolonged fantastically to an inch or more in length by about a line in width.

ASPLENIUM ERECTUM, Bory.—Of this very variable plant we have only the simple typical form, and that known as *A. Lunulatum*, of Swartz, a broader fronded plant with bolder pinnæ less deeply cut than the common plant. This latter is found in the forests of East Matale (Beckett).

ASPLENIUM FALCATUM, Lam., is a very variable plant, distinguished from *A. Caudatum* (which it often closely resembles, in the form and cutting of its fronds), by its long parallel, oblique sori, extending often from near the midrib to near the margin of the pinnæ. Several of our Ceylon forms of this species are indistinguishable from *A. Macrophyllum* as figured by Hooker, plate 197, Sp. Fil., and by Beddome, F., South India, plate 142.

ASPLENIUM CAUDATUM, Forst., is distinguished from the foregoing species by its two parallel rows of sori close to the rachis, in addition to which it has often other short oblique sori. It is very variable in regard to the shape and cutting of the pinnæ.

ASPLENIUM GARDNERI, Baker.—This plant has been hitherto known in Ceylon as *A. Macrophyllum*, but a careful comparison of our species with all the forms of *A. Macrophyllum* represented in the Kew Herbarium seems to prove it to be distinct. Gardner's specimen represented the plant imperfectly. Better specimens since received exhibit the character of the species more fully. Mr. Baker calls it *A. Gardneri*, and the old name *A. Macrophyllum*, therefore, disappears from our Ceylon list.

ASPLENIUM RESECTUM, L., is a very variable fern, the extreme forms of which differ very widely from each other, but are connected by intermediate forms. The greatest divergence from the typical characters is in a plant found in wet places in the high forests about Oodapussilawa. The stipes of this plant is thick and fleshy, the frond varies from six to eight inches in length, and the pinnæ are very large in proportion, being two inches long, and fully half an inch in width.

ASPLENIUM MACROCARPUM, Bl.—The several forms of this plant are all found growing in the same localities about Newera Ellia, and are well connected. The amplest fronded forms grow in the shade of dense forest.

**ASPLENUM NIGRIPES**, Bl., embraces a wide range of plants of seemingly very different types.

The smallest has a deltoid frond not more than six inches each way, and is common in the forests about Newera Ellia. The next, in point of size, has an oblong-lanceolate frond about twelve inches in length, closely resembles *A. Filix-Fœmina* in cutting, and is distinguished by long reddish spines on its rachis; this also grows about Newera Ellia, and is not uncommon. The largest attains a height of five to six feet, and grows on the banks of streams. This is *A. Gymnogrammoides* of Klotsch, as figured by Beddome (F. S. I.), plate 156. These forms differ from each other in important characters, besides the great disparity of size, such as the cutting and form of the pinnules, and in the colour and shape of the scales at the base of the stipes. They do not seem to be sufficiently connected by intermediate forms to be included under one species.

**ASPLENUM (DIPLAZIUM) SYLVATICUM**, Presl.—The largest forms of this fern approach so closely in appearance to the simple form of *Latifolium* as to be hardly distinguishable.

**ASPLENUM (DIPL.) MAXIMUM**, Don.—There seems to be some difficulty in precisely defining this species. Beddome's plant, *Dipl. Decurrens*, seems to be well marked. Other types included under this species at Kew do not seem to be so well defined. Some of my Ceylon specimens are left in doubt. Mr. Baker thinks they may be of a distinct species.

**ASPLENUM (DIPL.) ASSIMILE**, Endl.—It seems clear that our Ceylon plant, hitherto known as *A. Australe*, cannot properly be included in that species, as it is not only different in the form and cutting of the frond from the typical forms of that plant, but is undoubtedly a *Diplazium*. Diplazioid involucres occur copiously in all parts of our specimens. The name is here adopted on the authority of Beddome, and the old name *A. Australe* is omitted from the present list of Ceylon ferns.

**ASPIDIUM (POLYSTICHUM) CONIIFOLIUM**, Wall., having an erect caudex, seems specifically distinct from *A. Aristatum*, a smaller plant with a creeping rhizome.

**NEPHRODIUM (LASTREA) CALCARATUM**, Hk.—A very small and seemingly distinct form of this plant is found in the southern province at low elevations, C. P., 992. The pinnæ have almost entire edges, and are extremely narrow and acuminate. This extreme form is connected by intermediate forms up to the bold plant, with deeply lobed pinnæ, which grows at Newera Ellia, C. P., 3273.

**NEPHRODIUM (LASTREA) SPARSUM**, Don.—If all the varieties presently included under this species are properly assigned thereto, it must be regarded as one of the most variable. It appears, however, to contain several distinct types, not fully connected together, and which it would be convenient to distinguish under separate names. Adopting Hooker's figure of *N. (L.) Purpurascens*, plate 262, vol. iv. Sp. Fil., and C. P. 1369, as the typical form, (= *Nephrodium Sparsum* of Don and *Aspidium Nitidulum* of Wallich), the form figured by Beddome as *Lastrea Deltoidea* (C. P. 1368) is remarkably distinct; the pinnules at the base of the pinnæ, both above and below, being *reduced*, whilst in the typical and other forms these pinnules are the largest. This type is found in Moorooowa Corle. Another very distinct type, found at Blackpool, Newera Ellia, C. P. 4007, resembles closely the fern figured by Beddome as *Lastrea Pulvinulifera*. Our plant differs from his figure, and still more widely

from the type of *Deltoidea*, in having the basal pinnules, both above and below, much the largest, and often again pinnate. This character, and the cushion-like mass of long bright, silky scales at the base of the stipes, give it a striking and distinct appearance. A third type is that now named by Mettenius and Kuhn *Linnæa*, vol. xxxvi., p. 119, *Aspidium Obtusissimum*. It is distinguished by its broad, rounded lobes and pinnules, and has its stipes clothed at the base with light brown chaffy scales, very different in character from the dense mass of long, acuminate, silky scales of the previously mentioned type. These types, though subject to such variations as are common to all species, do not appear to be so connected by intermediate links as at any time to lose their distinctive characters. There is yet another form, of which I have seen only three specimens; but as they are extremely small, it may be that they are stunted and abnormal.

*NEPHRODIUM (LASTREA) UNDULATUM*, Baker, has yet been found only in one locality, the upper cone of Wattakelly Hill. It there occurs both with and without the undulated stipes and rachis which form its distinctive character. Near the foot of the cone slightly undulated and perfectly normal fronds are often found on the same plant. Higher up the hill the undulated character becomes more strongly marked, and is to be found in its extreme development in plants growing between the tufts of grass near the summit. It does not appear, therefore, that this undulated character can be safely regarded as constituting a specific distinction, and in that case the plant must be comprised with *Purpurascens*, the typical form of *Sparsum*.

*NEPHRODIUM HENKEANUM*, Presl, is included in this list on the faith of a specimen, numbered C. P. (53), from Ceylon, in the herbarium at Kew. It is very probable the plant may not lately have been distinguished from other members of this most troublesome group, amongst which there is a general and often puzzling resemblance.

*NEPHRODIUM AMBOINENSE*, Presl, is a variable plant. As it grows about Kitoalgalla, it is twelve to eighteen inches high, and its pinnæ are deeply serrated but scarcely lobed. As found about Oodapusselava and Ambawella, it is of much larger growth, attaining a height of four feet, and its pinnæ are cut a third of the way down into bluntish, scarcely falcate lobes. Dr. Thwaites regards this latter plant as one of the numerous and perplexing varieties of the *Molle* group. It is included under *N. Amboinense* in this list, on the authority of Mr. Baker. It is rather more deeply cut and developed than the typical specimens of the species in the Kew Herbarium, but has the character well marked. It would be interesting to find a good series in Ceylon connecting the extreme forms found in the localities indicated.

*NEPHRODIUM (SAGENIA) DECURRENS*, var. *MINOR*, is a curious plant, bearing a distant resemblance to *Aerostichum Quereifolium*, with which Dr. Thwaites thinks it may be a hybrid. It would seem more probably one between *Decurrens* and *Subtriphyllum*, closely allied species, to both of which it bears a resemblance.

*NEPHRODIUM (SAGENIA) SIMULANS*, Baker, is the plant figured by Beddome, in his 'Ferns of Southern India,' plate 244, under the name *Sagenia Thwaitesii*. It seems well distinguished from *N. Giganteum* by its texture, highly polished stipes, and general characters; but as there is already a *Nephrodium Thwaitesii*, Mr. Baker gives this species the name by which it is here designated.

**POLYPODIUM PARASITICUM**, Mett.—Some specimens gathered about Hoolankanda, and erroneously referred to this species in my herbarium, are regarded by Mr. Baker as clearly distinct. They resemble very closely *P. Australe*, Mett., but it would be unsafe to refer them to that species without the confirmation of more numerous specimens. They differ from the typical form of *P. Parasiticum* in being of much thinner texture, and also in colour and general character. They have very much the appearance of a minute form of *P. Zeylanicum*. I have not seen the var. *Pilosiuscula* of Thwaites, except at Kew.

**POLYPODIUM THWAITESII**, Beddome, is included with *P. Repandulum*, Mett., in the Synopsis, but is now recognized as a distinct species, being characterized by its having a creeping rhizome, whilst that of *P. Repandulum* is upright; and notably by its strong odour of rhubarb.

**POLYPODIUM MINUTUM**, Blume.—This fern was formerly referred to *P. Parvulum*, Bory, and subsequently to *P. Subfalcatum*, Blume. It seems, however, to belong properly to *P. Minutum*, and is so classified in the herbarium at Kew, for which reason it is so named in this list.

**POLYPODIUM (DRYNARIA) LINNÆI**, Bory, does not seem to be specifically distinct from *Quercifolium*, but is retained here on the faith of specimens found in Ceylon which are considered to be typical.

**MENISCIUM TRIPHYLLUM**, Sw.—The normal form of this fern is triphyllate; but it departs widely from that type in some localities and cases, approaching sometimes so closely to the least divided forms of *M. Thwaitesii* as to be mistaken for that species. It is curious that the least divided forms of *M. Thwaitesii* are found in East Matale, on the same range of mountains, but on the opposite side of the range, where the most divided forms of *M. Triphyllum* grow. On this range, therefore, the two forms approach each other most closely. The pinnæ in both forms are of two kinds: the lowest are patent and acuminate, the upper ones point upwards, are blunt, and often falcate. The terminal pinna in both species, but especially in *Thwaitesii*, has a tendency to become pinnatifid, or divided more or less into lobes, which gradually pass below into the form of the upper pinnæ, and become sometimes stalked. It seems probable, therefore, that the lower, acuminate, regular pinnæ are the only true ones, and that the upper, blunt ones, are mere lobes or divisions of the terminal pinna.

**ANTROPHYUM PLANTAGINEUM**, Klf., seems to me to be very doubtfully distinct from *Reticulatum*, and these from *Semicostatum*. The only characters which are relied on as distinguishing the species respectively, are the distinct, wingless stipes, and broad, irregular form of *Plantagineum*,—the winged stipes, and narrower, longer frond of *Reticulatum*,—and the semicostate character of *Semicostatum*. Dr. Thwaites considers the best distinguishing character of *Reticulatum* to be its very numerous barren sporangiastra, which, in some instances, give the sori for a considerable length the appearance of a velvet pile. If *Semicostatum* were recognized as a distinct species, *Demi-semicostatum* would have an equal claim to be also distinguished.

**VITTARIA LINEATA**, Sw., has its fruit in some cases so closely resembling *V. Elongata* as to lose the *Tæniopsis* type altogether. None of the Ceylon species which I have seen have their sori completely independent of the outer margin of the frond. In some plants found



at Moorooowa, the outer margin or involucre is so extended and doubled back as to give the appearance of an extension of the frond beyond the line of the sorus, as in *Tæniopsis Falcata*; but even in this case the sorus, though submarginal for the greater part of its length, approaches and runs into the margin as it terminates. None of the Ceylon specimens seem to conform to the true type of *Tæniopsis*.

ACROSTICHUM CONFORME, Sw.—Under this species several varieties are comprised. In Ceylon there are two types, distinguished in Thwaites' 'Enumeratio' as *A. Laurifolium*, Thouars, C. P. 1310, and *A. Marginatum*, Wall., C. P. 1311. The former is now made into a new species, under the name *A. Commutatum*, Mettenius, Ann. Mus. Leyd., vol iv., p. 292. Specimens of this species, collected on Wattakelly Hill, have the stipes of the barren frond winged to the base, and that of the fertile frond much longer. But I am not certain that these characters are constant, or that they distinguish the new species.

ACROSTICHUM ACUTUM, Fée, MSS., is the plant which has hitherto been known in Ceylon as *Acrostichum Spathulatum*, Bory, of which Mr. Fée makes a new species, and, as Mr. Baker adopts his view, the plant appears under its new name in this list.

ACROSTICHUM VIRENS, Wall., is very variable, but the different forms of our Ceylon specimens are not considered separable. The form most nearly resembling *A. Repandum*, of Blume, and which Dr. Thwaites refers to that species, is considered to be a form of *A. Virens*, as is also the form *A. Hookerianum* of the 'Enumeratio,' though the two certainly appear very distinct. The pinnæ of the latter are much narrower, and their edges are deeply sinuated, whereas in the barren fronds of the former the edges are entire. The venation of the two forms is also different. In the former, the main veins are straight and fine, and the veinlets unite midway between them, rarely forming areolæ except in the long, terminal proliferous pinna. In the latter, the veins are all very conspicuous, especially the main veins, which are undulated, and the veinlets anastomose irregularly, forming copious areolæ.

ACROSTICHUM LANCEOLATUM, Hk.—Dr. Thwaites does not regard our plant as distinct from *A. Variabile*, Hk. It bears a very close resemblance to some of the simple forms of that plant, and its venation sometimes approaches nearly to that of *Gymnopteris*. It is not subject, however, to the remarkable variableness of *A. Variabile*, but remains constant to its simple typical form.

ACROSTICHUM (CHRYSOIDIUM) WALLII, Baker.—Dr. Thwaites regards this fern as a variety of the extremely variable species *A. Variabile*, but it differs widely from any specimen of that species and its allies in the herbarium at Kew, and has therefore been separated from them. It was found in a ravine, near Mooroowakka, in the Southern Province, and has not yet been discovered in any other locality. Numerous specimens present very constant and marked characters, which seem to distinguish them from all previously recognized species.

OPHIOGLOSSUM VULGATUM, L.—We have two allied species of *Ophioglossum* in Ceylon, one resembling the figure of *O. Ellipticum*, Hk. and Gr., pl. 40, and included under the species *O. Nudicaule*; the other well represented by Beddome's figure of *O. Brevipes*, which would seem to be comprised under *O. Vulgatum*. Neither of these plants is typical; but, as the species are very variable, they are probably well classed under the species named.



The following are species which have been attributed to Ceylon, but are now either discarded or doubtful :—

56. *DAVALLIA* (*MICROLEPIA*) *MARGINALIS*.—No specimen of this species from Ceylon exists in the herbarium in Kew, nor is it known in Ceylon. There does not appear to be any authority for regarding it as a Ceylon species.
5. *PTERIS* *PELLUCIDA*, Presl.—The specimen from Ceylon in the Kew Herbarium under this name is undoubtedly *P. Hookeriana*, Agardh.
7. *NEPHRODIUM* (*LASTRÆA*) *CUSPIDATUM*, Baker.—Of this fern there is a specimen at Kew, sent by Dr. Gardner, numbered 1256, respecting which there must be some mistake, as that number is represented in the Peradeniya Herbarium by a plant of another genus, *Mangifera Indica*. All the other specimens are Himalayan, and it is worthy of remark that the specimen figured by Beddome, pl. 118 of his 'Ferns of *British India*,' though grown in Khasiya, was received by him from the Ceylón Herbarium! The plant is certainly Himalayan, and is not now known in Ceylon.
16. *PTERIS* *SEMPINNATA*, L.—The specimen from Ceylon in the Kew Herbarium under this name is undoubtedly one of the numerous varieties of *P. Quadriaurita*, Retz.
180. *NEPHRODIUM* *ABORTIVUM*, J. Sm.—There seems to be no authority for attributing this fern to Ceylon.
71. *POLYPODIUM* (*GONIOPTERIS*) *LINEATUM*, Coleb.—There is a solitary and very imperfect specimen of this fern at Peradeniya, but it is otherwise unknown in Ceylon. There is a specimen at Kew from Mrs. Walker; but, as no specimen has been found by Dr. Thwaites and his indefatigable collectors, nor by any living collector, it can scarcely be included amongst existing Ceylon species.
139. *POLYPODIUM* *PARVULUM*, Bory.—The plants which have been so called are now referred to *Repandulum* and *Minutum*.
167. *POLYPODIUM* *FUSCATUM*, Bl., is represented at Kew by a specimen from Ceylon with the C. P. number, 1289, which is the number properly belonging to *P. Glandulosum*. There is some mistake here, and the species *Fuscatum* is not known by that or any other number at Peradeniya.
- POL. (NIPH.) *ACROSTICHOIDES*, Forst.—A specimen from Ceylon of this species, at Kew, is four feet long by about half an inch wide, and fertile for a great part of its length. It is highly improbable that a fern of such remarkable character should have escaped the observation of all living collectors; nor is it likely that such a species would have been exterminated by the extensive coffee clearings. It seems more probable that it is not a Ceylon species, and that Gardner's specimen of this fern, like that of *N. Cuspidatum*, came from some other country.
- POL. (PHYM.) *HETEROCARPUM*, Bl.—It is possible that this fern has been mistaken for *P. Membranaceum*, as they run very closely into each other. It is not known by Dr. Thwaites.

GYMNOGRAMME ASPIDIOIDES, Hooker. }  
ACROSTICHUM VISCOSUM, Sw. } The foregoing remarks on *Neph. Cuspidatum* are probably  
equally applicable to these two species, which have been assiduously but vainly sought  
in Ceylon for many years. Gardner's specimen of *A. Viscosum*, at Kew, is without  
reference number.

ACROSTICHUM AXILLARE, Cav., is not a Ceylon species. There is no specimen from Ceylon at  
Kew, and it does not appear how it came to be attributed to Ceylon.

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## ADDENDA TO THE 'ENUMERATIO.'

*From a Manuscript kindly given by Dr. Thwaites.*

	C. P.
Hymenophyllum Emersum, <i>Baker</i> - - - - -	3360
Trichomanes Motleyi, <i>V. D. B.</i> - - - - -	3972
„ Exiguum, <i>Beddome</i> - - - - -	3957
Davallia Bullata, <i>Wall.</i> - - - - -	3927
Lindsæa (Schizoloma) Heterophylla, <i>Dry.</i> - - - - -	3861
Pteris Falcata, <i>R. Br.</i> - - - - -	3933
„ Pellucens, <i>Agardh.</i> - - - - -	3945
Asplenium (Athyr.) Hohenackerianum, <i>Kunze</i> - - - - -	3867
„ (Dipl.) Decussatum, <i>Wall.</i> - - - - -	3951
„ (Aniso.) Smithianum, <i>Sm.</i> - - - - -	3990
Aspidium Coniifolium, <i>Wall.</i> - - - - -	3938
„ (Lastrea) Eriocarpum, <i>Dee.</i> - - - - -	3888
Polypodium Hirtellum, <i>Bl.</i> - - - - -	3902
„ Cornigerum, <i>Baker</i> , in Syn. Fil., edit. 2 inedit. - - - - -	4005
„ Thwaitesii, <i>Beddome</i> - - - - -	3900
„ (Phym.) Lanceolatum, <i>L.</i> - - - - -	3988
„ ( „ ) Dilatatum, <i>Wall.</i> - - - - -	3973
Gymnogramme Leptophylla, <i>Desv.</i> - - - - -	3934
Ophioglossum —? - - - - -	3993

## LIST OF SPECIES PECULIAR TO CEYLON.

Cyathea Sinuata, <i>Hk. and Gr.</i>	Nephrodium (Lastrea) Obtusilobum, <i>Baker.</i>
„ Hookeri, <i>Thw.</i>	„ (Lastrea) Walkeræ, <i>Hooker.</i>
Hemitelia Walkeræ, <i>Hooker.</i>	„ (Sagenia) Decurrens, <i>var. minor.</i>
Trichomanes Exiguum, <i>Beddome.</i>	„ (Sagenia) Simulans, <i>Baker.</i>
Davallia (Microlepia) Majuscula, <i>Lowe.</i>	Polypodium Zeylanicum, <i>Mett.</i>
Cheilanthes Thwaitesii, <i>Kuhn.</i>	„ Cornigerum, <i>Baker</i> , 4005.
Pteris Hookeriana, <i>Agardh.</i>	„ Glandulosum, <i>Hooker.</i>
Asplenium (Dipl.) Zeylanicum, <i>Hooker.</i>	„ Thwaitesii, <i>Beddome.</i>
„ (Dipl.) Thwaitesii, <i>A. Br.</i>	„ Repandulum, <i>Mett.</i>
„ (Aniso.) Smithianum, <i>Baker.</i>	„ (Niph.) Gardneri, <i>Mett.</i>
Aspidium (Polyst.) Anomalum, <i>Hooker.</i>	Meniscium Thwaitesii, <i>Hooker.</i>
Nephrodium (Lastrea) Undulatum, <i>Baker.</i>	Acrostichum Acutum, <i>Fée.</i>
„ (Lastrea) Thwaitesii, <i>Baker.</i>	„ (Chrysodium) Wallii, <i>Baker.</i>

## EXPLANATIONS OF ABBREVIATIONS USED IN THE CATALOGUE.

Ag.	-	-	-	Agardh, Professor of Botany at Stockholm.
Baker	-	-	-	J. G. Baker, Curator of Kew Herbarium.
Bedd.	-	-	-	Major Beddome, Conservator of Forests, Madras.
Bernh.	-	-	-	Bernhardi, Professor of Botany at Erfurt.
Bory.	-	-	-	Bory de St. Vincent, French Botanist.
Brack.	-	-	-	W. D. Brackenridge, Botanist.
R. Br.	-	-	-	Robert Brown, celebrated English Botanist.
Brong.	-	-	-	A. Brongniart, French Botanist.
Burm.	-	-	-	J. Burmann, Dutch Botanist.
Cav.	-	-	-	A. J. Cavanilles, Professor of Botany at Madrid.
Desv.	-	-	-	N. A. Desvaux, French Botanist.
Don.	-	-	-	D. Don, Professor of Botany at King's College.
Dry.	-	-	-	Jonas Dryander, Librarian to Sir J. Banks.
Endl.	-	-	-	Endlicher, Professor of Botany at Vienna.
Fée	-	-	-	A. W. Fée, Professor of Botany, Strasburg.
Fisch.	-	-	-	Fischer, a Russian Botanist.
Forsk.	-	-	-	P. Forskahl, Danish Botanist.
Forst.	-	-	-	J. R. Forster.
Hoff.	-	-	-	G. H. Hoffman, German Botanist.
Hk.	-	-	-	Sir W. J. Hooker, late Director of the Royal Gardens, Kew.
Hk. and Arn.	-	-	-	Hooker and Arnott.
Hk. and Gr.	-	-	-	Hooker and Greville.
J. Sm.	-	-	-	John Smith, late Curator Royal Botanic Gardens, Kew.
Kaulf.	-	-	-	G. F. Kaulfuss, Professor of Botany, Leipsic.
Klot.	-	-	-	Dr. Klotsch, German Botanist.
Kuhn.	-	-	-	Dr. Kuhn, Berlin.
Kunze, Kze.	-	-	-	Kunze, Professor of Botany, Leipsic.
Labill	-	-	-	J. J. Labillardière, French Traveller.
Lam.	-	-	-	Lamarck, celebrated Naturalist.
Lang. and Fisch.	-	-	-	J. G. Langsdorf, a Russian Botanist.
Linte	-	-	-	H. F. Linte, Professor of Botany, Berlin.
Linn. or L.	-	-	-	Linnæus, celebrated Naturalist.
Mett.	-	-	-	Dr. Mettenius, Professor of Botany, Leipsic.
Moore	-	-	-	T. Moore, Curator of Chelsea Ap. Garden.
Poir.	-	-	-	Poiret, French Botanical Compiler.
Presl	-	-	-	C. B. Presl, Professor of Botany, Prague.
Raddi	-	-	-	J. Raddi, German Botanist.
Retz.	-	-	-	A. J. Retzius, German Botanist.
Reinw.	-	-	-	Reinwardt, Professor of Botany, Leyden.
Rich.	-	-	-	L. C. Richard, writer in Guiana.
Roth	-	-	-	A. G. Roth, German Botanist.
Roxb.	-	-	-	Dr. Roxburgh, English Botanist.
Schk.	-	-	-	C. Schkuhr, Dutch Botanist.
Schlecht.	-	-	-	Dr. Schlechtendahl, Professor of Botany, Berlin.
Schott	-	-	-	H. Schott, Director Royal Gardens, Vienna.
Sieber	-	-	-	Sieber, German Botanist.
Sm.	-	-	-	Sir John Smith, celebrated English Botanist.
Spreng.	-	-	-	C. Sprengel, Professor of Botany, Halle.
Sw.	-	-	-	Olaf Swartz, Swedish Botanist.
Thumb.	-	-	-	P. Thunberg, Dutch Botanist.
Thw.	-	-	-	G. H. K. Thwaites, Director Botanic Gardens, Ceylon.
V. D. B.	-	-	-	Van Den Bosch.
Wall.	-	-	-	Dr. N. Wallich, late Director Royal Gardens, Calcutta.
Willd.	-	-	-	C. L. Willdenow, Professor of Botany, Berlin.

## POSTSCRIPT.

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SINCE the foregoing pages were printed, Mr. Baker has kindly informed me of the following revisions of our Ceylon ferns for the second edition of the Synopsis now in preparation.

DAVALLIA TRICHOMANOIDES, Bl.—There has been some uncertainty about the original type of this species, but it is now identified, and our Ceylon species is found to be very distinct. It is named *Dav. Schizophylla*, Baker.

ASPLENIUM PERSICIFOLIUM, J. Sm.—Our Ceylon species is *A. Zenkerianum* of Kunze, and is now regarded as distinct from the typical form of the Phillipine-Island original, differing therefrom in its shorter sori, entire edge and less woody stipes.

ASPLENIUM JAPONICUM, Thunb.—The Japanese type of this species resembles very closely our *Aspl. Thwaitesii*, insomuch that the only present representative of the species at Kew from Ceylon was sent by Dr. Thwaites as a “large form” of *Thwaitesii*, and with the same C.P. number, 1343. This number therefore represents both species in part, if, in fact, the two are really distinct. C.P. 3951, mentioned in the list of Dr. Thwaites’ addenda, page 11, as *Aspl. Decussatum*, Wallich, and hitherto referred to *A. Japonicum*, is a good species, differing from *Japonicum* chiefly in having an erect caudex. As there is already an *Aspl. Decussatum*, however, Mr. Baker gives the Ceylon species the name of *A. Polyrhizon*, owing to its dense mass of wiry roots. This is the species figured by Beddome in plate 292 of his ‘Ferns of Southern India.’

Another Ceylon species included under *Japonicum* in the first edition of the Synopsis, will appear in the second as *A. Schkuhrii*, Thwaites. This plant has also an upright caudex. Its C.P. number is 3100, and it is figured in Beddome’s ‘Ferns of Southern India,’ plate 230. To me this seems to run too close to some forms of the very variable species *Dipl. Decurrens* of Beddome, which = *A. Maximum*, Don.

POLYPODIUM PARASITICUM, Mett.—The fern mentioned in the note at page 7 will appear as *Pol. Mediale*, Mr. Baker having decided, after a careful inspection of all my specimens, that it cannot be safely included under *P. Australe*, owing to the situation of the sori being further from the midrib than in that species.

POLYPODIUM LINGUA, Sw.—Dr. Kuhn describes our plant as a new species under the name of *Pol. Pannosum*, Mett. (Linnaea, vol. xxxvi. p. 141), which is distinguished from the typical *Lingua* of Japan by its sori, which fall (sometimes considerably) short of the edge of the frond. Its vestiture, which has no doubt suggested its name, is also closer and finer than in *Lingua*. Mettenius and Kuhn separate the Himalayan *Lingua* as a third species, under the name of *Heteractis*.

ACROSTICHUM SPATHULATUM, Bory.—The note at page 8 was written under the impression that Mr. Baker admitted the new species *A. Acutum* as distinct, but that is not his opinion, and our species remains in the Catalogue as before.

These revisions cause the following changes in the foregoing Catalogue, viz.:—

DAVALLIA SCHIZOPHYLLA, Baker, *vice* D. TRICHOMANOIDES, Hk.

ASPLENIUM ZENKERIANUM, Kunze, *vice* A. PERSICIFOLIUM, J. Sm.

Additional species:—

ASPLENIUM POLYRHIZON, Baker.

ASPLENIUM SCHKUHRII, Thwaites.

POLYPODIUM MEDIALE, Baker.

All peculiar to Ceylon.

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